Worksheet Name: Benefit Summary - Rev Feb 2018

NODOS Summary of Benefits and Costs - Average Conditions [a] Adjusted to account for public benefits provided durin
Benefits reported in millions $2015 over the 93-year performance period

Table A9-1. Annual Benefits Summary ($2015, $millions/Year)

Beneficiary	WSIP Application (2015 $; $millions) Sites (2030-2122)	WSIP Fundable Purposes and Beneficiaries (%)	JPA	
WSIP Public Benefits	**$111.5**			
Ecosystem Improvement	$103.0	100%		
Anadromous Fish & Other Aquatic	$57.0	100%		56%
Incremental Level 4 Refuge	$15.8	100%		15%
Oroville Coldwater Pool	$21.1	100%		20%
Yolo Bypass	$9.1	100%		9%
Recreation	$7.0	100%		
Flood Control	$1.6	100%		
Non-WSIP Benefits	**$179.7**			
Water Supply	$159.6	0%	100%	
M&I Water Supply	$110.0	0%		69%
Agricultural Water Supply	$49.6	0%		31%
Recaptured Water Supply	$0.0	0%		0%
Hydropower (System)	$20.1	0%	100%	
TOTAL BENEFITS	**$291.2**			

2023-2122

Annual Cost (93 yrs, 3.5%)	
Capital Amortization	$195.5
Operations & Maintenance	$26.6
TOTAL COST	**$222.1**

2030-2122

BCR	1.31
Net Benefit - Annual	$69.1
Total Net Benefit (NPV)	$1,960.7

2030-2122 (Adjusted to include pre-construction benefits)

BCR	1.31
Net Benefit - Annual	$69.9
Total Net Benefit (NPV)	$1,981.3

Public Benefits - Total	$111.5
(%)	38.3%
Non-Public Benefits - Total	$179.7
(%)	61.7%
TOTAL BENEFITS	**$291.2**

Capital Costs	
Construction	$4,747.2
IDC (3.5%)	$797.56
Total Capital Cost	**$5,544.8**
Annualization Factor	28.4

Assumes WSIP and Fed funding impact on IDC

w/o IDC Savings

Annual Cost (93 yrs, 3.5%)	
Capital Amortization	$195.5
Operations & Maintenance	$26.61
TOTAL COST	**$222.1**

g this period before full operational capacity (2026-2029)

	Funding Assumptions
2015 $M	**No IDC**
Construction	$4,747
IDC	$798
Total Capital Cost	**$5,545**
Federal	$698
WSIP	$1,388
Authority	$2,661
Total	**$4,747**
Public BCR (for adjusted WSIP Funding Request)	2.28
Hydropower (System)	$460
Non-Federal Remaining	$2,201
Federal	15%
WSIP	29%
Non-Federal	56%

Table A9-3. Benefit-Cost Analysis Results ($2015, $milli WSIP, Fed	
Total BCR	1.31
Net Benefit (Annual)	$69.9
Total Net Benefit (NPV)	$1,981

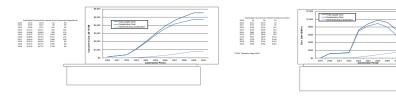| Table A9-4. Public Benefit Ratio Results ($2015, $millions/year)	
Results	**Project**
Total public benefits (annual)	$111.5
Total ecosystem Improvement benefits (annual)	$103.0
Ecosystem improvement as % of public benefit	92.4%
Total public benefits (NPV)	$3,163
WSIP funding request	$1,388
PBR	**2.28**

Table A10-1. Cost Allocation Summary: WSIP (w/ IDC Savings) and Federal Funding (w/ IDC Savings) (Annualized Values: 2015$; $millions)

Category	WSIP Public Benefits			Non-WSIP Benefits		Total
	Ecosystem Improvement	Recreation	Flood Control	Water Supply	Hydropower (System)	
Allocated Total Cost						
Total Project Costs						$222.1
Benefits by Purpose	$103.0	$7.0	$1.6	$159.6	$20.1	$291.2
Single Purpose Cost	$116.7	$180.6	$180.1	$117.5	$195.5	-
Justifiable Expenditures	$103.0	$7.0	$1.6	$117.5	$20.1	$249.1
Separable Costs	$0	$0.3	$0	$0	$15.1	$15.4
Remaining Benefits (Justifiable Expenditures Less Separable Costs)	$103.0	$6.6	$1.6	$117.5	$5.0	$233.7
Percent (Distribution of Remaining Benefits)	44.1%	2.8%	0.7%	50.3%	2.1%	100%
Allocated Joint Costs	$91.09	$5.9	$1.4	$103.9	$4.4	$206.7
Total Allocated Costs (Separable Plus Allocated Joint Costs)	**$91.1**	**$6.2**	**$1.4**	**$103.9**	**$19.5**	**$222.1**
Percent Total Cost Allocation	**41.0%**	**2.8%**	**0.6%**	**46.8%**	**8.8%**	**100.0%**
Allocated Capital Costs (Annualized)						
Separable Capital Cost	$0	$0.2	$0	$0	$15.1	$15.2
Allocated Capital Cost	$79.4	$5.1	$1.2	$90.6	$3.9	$180.3
Total Allocated Annual Capital Cost	**$79.4**	**$5.3**	**$1.2**	**$90.6**	**$18.9**	**$195.5**
Percent Capital Cost Allocation	**40.6%**	**2.7%**	**0.6%**	**46.4%**	**9.7%**	**100.0%**
Allocated Construction Costs (Annualized)						
Separable Construction	$0.0	$0.1	$0.0	$0.0	$12.9	$13.0
Allocated Construction	$68.0	$4.4	$1.0	$77.6	$3.3	$154.3
Total Allocated Capital	**$68.0**	**$4.5**	**$1.0**	**$77.6**	**$16.2**	**$167.4**
Percent Capital Cost Allocation	**40.6%**	**2.7%**	**0.62%**	**46.4%**	**9.7%**	**100%**
Allocated IDC Costs (Annualized)						
Separable Construction	$0	$0.02	$0	$0	$2.2	$2.2
Allocated Construction	$11.4	$0.73	$0.175	$13.0	$0.6	$25.9
Total Allocated Capital	**$11.4**	**$0.76**	**$0.175**	**$13.0**	**$2.7**	**$28.1**
Percent Capital Cost Allocation	**40.6%**	**2.7%**	**0.6%**	**46.4%**	**9.7%**	100.0%
Allocated Capital Costs (Nominal)						
Allocated IDC	$324	$21	$5	$370	$77	$798
Construction Cost	$1,929	$127.8	$29.5	$2,201	$460	$4,747
Allocated Total Capital Cost	**$2,253**	**$149.3**	**$34.4**	**$2,571**	**$537**	**$5,545**

Purpose/Action	Total		Cost Assignment: WSIP (w/ IDC Savings), Federal Funding (w/ IDC Savings)					
			Federal Nonreimbursable		WSIP		Non-Federal Partners (a)	
	Percent	Cost ($M)	Percent	Cost ($M)	Percent	Cost ($M)	Percent	Cost ($M)
			Cost Assignment: WSIP (w/ IDC Savings), Federal Funding (w/ IDC Savings)					
WSIP Eligible Purposes	**44.0%**	**$2,086**	**33.5%**	**$698**	**66.5%**	**$1,388.0**	**0%**	**$0**
Ecosystem Improvement	40.6%	$1,929.2	35.4%	$684	64.6%	$1,245.5	0%	$0
Anadromous Fish & Other A	55.6%	$1,074	50.0%	$537	50.0%	$537	0%	$0
Incremental Level 4 Refuge	15.2%	$294	50.0%	$147	50.0%	$147	0%	$0
Oroville Coldwater Pool	20.3%	$392	0.0%	$0	100%	$392	0%	$0
Yolo Bypass	8.8%	$170	0.0%	$0	100%	$170	0%	$0
Recreation	2.7%	$128	0.0%	$0	100%	$127.8	0%	$0
Flood Control	0.6%	$29	50.0%	$14.7	50%	$14.7	0%	$0
Non-WSIP Eligible Purposes	**56.0%**	**$2,661**	**0.0%**	**$0**	**0%**	**$0**	**100%**	**$2,661**
Water Supply	46.4%	$2,201	0.0%	$0	0%	$0	100%	$2,201
Hydropower (System)	9.7%	$460	0.0%	$0	0%	$0	100%	$459.7
TOTAL	**100%**	**$4,747**	**14.7%**	**$698.5**	**29.2%**	**$1,388.0**	**56.0%**	**$2,660.7**

Worksheet Name: Capital Cost

NJ/GPU Construction and Operations & Maintenance Cost Reporting Metrics (2015$, $millions/year)

Source: PS&T cost estimates draft from Joe Ramos (April 2012)

IDC = Interest During Construction

Worksheet Name: Annual Benefit by Pu $0   Recalc   Unchanged   Updated   Updated   Updated   Updated   Recalc   Recalc   Updated   Updated   Updated   Updated

Present and Annualized Value Benefits for Average Condition   0.00

Table A6-1. Annualized Average Benefit Value Summary by Beneficiary (2015$; $1000s)

		Total WSIP Public Benefits	WSIP Public Benefits — Ecosystem Improvement				Recreation	Flood	Total Non-WSIP Benefits	Water Supply	Non-WSIP Benefits — Water Supply		$0	Hydropower	Total Benefits	WSIP Public	WSIP Non-		Year	Total WSIP Public	Total
	2030	$60,391	$51,934	$25,637	$9,279	$8,174	$8,845	$6,997	$1,460	$103,261	$83,078	$46,737	$36,342	$0	$20,183	$163,653				2030	$60,391	$51,934
	2045	$108,476	$100,019	$48,505	$18,557	$23,767	$9,190	$6,997	$1,460	$168,121	$147,938	$95,883	$52,055	$0	$20,183	$276,597				2045	$108,476	$100,019
	2070	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379				2070	$148,259	$139,802

Start of Year 1 Annualized Benefit ($): $111,507 $102,981 $56,985 $15,796 $21,062 $9,138 $6,953 $1,573 $179,704 $159,627 $109,993 $49,634 $0 $20,077 $291,211

Total PV Benefit (2030-2122) $3,162,930 $2,921,087
Annualized (2030-2122) $111,507 $102,981
PV - Early Operations Benefits (2026-2029) $35,286 $30,564

		Recalc	Recalc	Unchanged	JPA Revised	JPA Revised	Approv CWC	CWC Rec	CWC Rec	Recalc	Recalc	Approv CWC	CWC Rec	CWC Rec	Approv CWC							
		Total WSIP Public Benefits	Total Ecosystem Improvement	Anadromous Fish & Other Aquatic	Incremental Level 4 Refuge	Oroville Coldwater Pool	Yolo Bypass	Recreation	Flood Control	Total Non-WSIP Benefits	Water Supply	M&I Water Supply	Agricultural Water Supply	Recaptured Water	Hydropower (System)	Total Benefits						
		Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected	Sites Selected						

Present Value Benefit ($2015 @ 100 yrs) $3,162,930 $2,921,087 $1,616,392 $448,066 $597,419 $259,210 $197,213 $44,630 $5,097,339 $4,527,852 $3,119,968 $1,407,885 $0 $569,487 $8,260,269
Annualized Value Benefit ($2015 @ 100 yrs) $111,507 $102,981 $56,985 $15,796 $21,062 $9,138 $6,953 $1,573 $179,704 $159,627 $109,993 $49,634 $0 $20,077 $291,211   38.3%   61.7%
PV - Early Operations Benefits (2026-2029) $35,286 $30,564 $20,658 $0 $0 $1,327 $0 $730 $0 $0 $0 $0 $0 $0 $35,286
Additional Annual $1,244 $1,078 $728 $0 $0 $0 $0 $0 $0 $0 $0 $0 $0 $0 $1,244   38.6%   61.4%
Total Annualized Value $112,751 $104,059 $57,713 $15,796 $21,062 $9,138 $6,953 $1,573 $179,704 $159,627 $109,993 $49,634 $0 $20,077 $292,455
Average (not Annualized) 93 $132,406 $123,977 $73,383 $16,731 $24,581 $9,281 $6,922 $1,507 $222,422 $202,456 $148,904 $53,551 $0 $19,966 $354,827

Adjusted Annualized (2030-2122) [a] $112,751 $104,059
Adjusted Total PV Benefit (2030-2122) [a] $3,198,216 $2,951,651

JPA Calcs Aug/Appeal (if similar) or Appeal 2034 $3,153,499 $2,920,492 $1,616,392 $448,066 $597,419 $258,615 $191,594 $41,413 $5,199,995 $4,647,342 $3,236,668 $1,410,674 $0 $552,653 $8,353,494

Table A6-2. Annual Economic Benefits by Beneficiary: 2023 to 2122 (2015$; $1000s)

	Year	PV Factor (2030)	WSIP Eligible Purposes — Sites Selected	Total Ecosystem Improvement — Sites Selected	Anadromous Fish & Other Aquatic — Sites Selected	Incremental Level 4 Refuge — Sites Selected	Oroville Coldwater Pool — Sites Selected	Yolo Bypass — Sites Selected	Recreation — Sites Selected	Flood Control — Sites Selected	Total Non-WSIP Benefits — Sites Selected	Water Supply — Sites Selected	M&I Water Supply — Sites Selected	Agricultural Water Supply — Sites Selected	Recaptured Water — Sites Selected	Hydropower (System) — Sites Selected	Total Benefits — Sites Selected		Year	PV Factor (2030)	Total WSIP Public Benefits	Total Ecosystem Improvement
Construction Starts	2023	1.272	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	Construction	2023	1.272	$0	$0
	2024	1.229	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0		2024	1.229	$0	$0
	2025	1.188	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0		2025	1.188	$0	$0
	2026	1.148	$4,178	$3,448	$2,564	$0	$0	$884	$0	$730	$0	$0	$0	$0	$0	$0	$4,178		2026	1.148	$4,178	$3,448
	2027	1.109	$5,902	$5,172	$3,846	$0	$0	$1,327	$0	$730	$0	$0	$0	$0	$0	$0	$5,902		2027	1.109	$5,902	$5,172
	2028	1.071	$9,241	$7,781	$5,127	$0	$0	$2,653	$0	$1,460	$0	$0	$0	$0	$0	$0	$9,241		2028	1.071	$9,241	$7,781
Construction Ends	2029	1.035	$13,573	$12,113	$7,691	$0	$0	$4,422	$0	$1,460	$0	$0	$0	$0	$0	$0	$13,573	Construction	2029	1.035	$13,573	$12,113
WSIP Analysis Year	2030	1.000	$56,893	$51,934	$25,637	$9,279	$8,174	$8,845	$3,499	$1,460	$93,170	$83,078	$46,737	$36,342	$0	$10,091	$150,063	WSIP Analysis	2030	1.000	$56,893	$51,934
	2031	0.966	$60,050	$55,092	$27,161	$9,927	$9,136	$8,868	$3,499	$1,460	$97,476	$87,384	$50,013	$37,371	$0	$10,091	$157,526		2031	0.966	$60,050	$55,092
	2032	0.934	$66,714	$58,257	$28,686	$10,571	$10,109	$8,891	$6,997	$1,460	$111,876	$91,693	$53,289	$38,403	$0	$20,183	$178,589		2032	0.934	$66,714	$58,257
	2033	0.902	$69,885	$61,428	$30,211	$11,211	$11,093	$8,914	$6,997	$1,460	$116,186	$96,003	$56,566	$39,437	$0	$20,183	$186,072		2033	0.902	$69,885	$61,428
	2034	0.871	$73,064	$64,607	$31,735	$11,846	$12,089	$8,937	$6,997	$1,460	$120,499	$100,316	$59,842	$40,474	$0	$20,183	$193,563		2034	0.871	$73,064	$64,607
	2035	0.842	$76,249	$67,792	$33,260	$12,477	$13,095	$8,960	$6,997	$1,460	$124,815	$104,632	$63,119	$41,513	$0	$20,183	$201,064		2035	0.842	$76,249	$67,792
	2036	0.814	$79,442	$70,985	$34,784	$13,104	$14,113	$8,983	$6,997	$1,460	$129,133	$108,950	$66,395	$42,555	$0	$20,183	$208,575		2036	0.814	$79,442	$70,985
	2037	0.786	$82,641	$74,184	$36,309	$13,727	$15,142	$9,006	$6,997	$1,460	$133,454	$113,271	$69,671	$43,599	$0	$20,183	$216,094		2037	0.786	$82,641	$74,184
	2038	0.759	$85,846	$77,389	$37,833	$14,346	$16,181	$9,029	$6,997	$1,460	$137,777	$117,594	$72,948	$44,646	$0	$20,183	$223,624		2038	0.759	$85,846	$77,389
	2039	0.734	$89,059	$80,602	$39,358	$14,960	$17,232	$9,052	$6,997	$1,460	$142,103	$121,920	$76,224	$45,696	$0	$20,183	$231,162		2039	0.734	$89,059	$80,602
	2040	0.709	$92,278	$83,821	$40,882	$15,570	$18,294	$9,075	$6,997	$1,460	$146,432	$126,249	$79,501	$46,749	$0	$20,183	$238,711		2040	0.709	$92,278	$83,821
	2041	0.685	$95,504	$87,047	$42,407	$16,176	$19,367	$9,098	$6,997	$1,460	$150,764	$130,581	$82,777	$47,804	$0	$20,183	$246,269		2041	0.685	$95,504	$87,047
	2042	0.662	$98,737	$90,280	$43,931	$16,778	$20,450	$9,121	$6,997	$1,460	$155,099	$134,916	$86,054	$48,862	$0	$20,183	$253,836		2042	0.662	$98,737	$90,280
	2043	0.639	$101,977	$93,520	$45,456	$17,375	$21,545	$9,144	$6,997	$1,460	$159,437	$139,254	$89,330	$49,924	$0	$20,183	$261,413		2043	0.639	$101,977	$93,520
	2044	0.618	$105,223	$96,766	$46,981	$17,968	$22,650	$9,167	$6,997	$1,460	$163,777	$143,594	$92,606	$50,988	$0	$20,183	$269,000		2044	0.618	$105,223	$96,766
	2045	0.597	$108,476	$100,019	$48,505	$18,557	$23,767	$9,190	$6,997	$1,460	$168,121	$147,938	$95,883	$52,055	$0	$20,183	$276,597		2045	0.597	$108,476	$100,019
	2046	0.577	$110,069	$101,612	$50,030	$18,497	$23,894	$9,191	$6,997	$1,460	$171,560	$151,377	$99,159	$52,217	$0	$20,183	$281,629		2046	0.577	$110,069	$101,612
	2047	0.557	$111,662	$103,205	$51,554	$18,438	$24,021	$9,192	$6,997	$1,460	$174,998	$154,815	$102,436	$52,380	$0	$20,183	$286,661		2047	0.557	$111,662	$103,205
	2048	0.538	$113,256	$104,799	$53,079	$18,378	$24,148	$9,193	$6,997	$1,460	$178,437	$158,254	$105,712	$52,542	$0	$20,183	$291,693		2048	0.538	$113,256	$104,799
	2049	0.520	$114,849	$106,392	$54,603	$18,318	$24,275	$9,195	$6,997	$1,460	$181,876	$161,693	$108,988	$52,704	$0	$20,183	$296,724		2049	0.520	$114,849	$106,392
	2050	0.503	$116,441	$107,984	$56,128	$18,259	$24,402	$9,196	$6,997	$1,460	$185,315	$165,132	$112,265	$52,867	$0	$20,183	$301,756		2050	0.503	$116,441	$107,984
	2051	0.486	$118,034	$109,577	$57,652	$18,199	$24,528	$9,197	$6,997	$1,460	$188,754	$168,571	$115,541	$53,030	$0	$20,183	$306,788		2051	0.486	$118,034	$109,577
	2052	0.469	$119,626	$111,169	$59,177	$18,140	$24,655	$9,198	$6,997	$1,460	$192,193	$172,010	$118,818	$53,193	$0	$20,183	$311,820		2052	0.469	$119,626	$111,169
	2053	0.453	$121,219	$112,762	$60,701	$18,080	$24,781	$9,199	$6,997	$1,460	$195,632	$175,450	$122,094	$53,355	$0	$20,183	$316,851		2053	0.453	$121,219	$112,762
	2054	0.438	$122,811	$114,354	$62,226	$18,021	$24,906	$9,201	$6,997	$1,460	$199,072	$178,889	$125,370	$53,519	$0	$20,183	$321,883		2054	0.438	$122,811	$114,354
	2055	0.423	$124,403	$115,946	$63,751	$17,961	$25,032	$9,202	$6,997	$1,460	$202,512	$182,329	$128,647	$53,682	$0	$20,183	$326,914		2055	0.423	$124,403	$115,946
	2056	0.409	$125,994	$117,537	$65,275	$17,902	$25,158	$9,203	$6,997	$1,460	$205,951	$185,768	$131,923	$53,845	$0	$20,183	$331,946		2056	0.409	$125,994	$117,537
	2057	0.395	$127,586	$119,129	$66,800	$17,842	$25,283	$9,204	$6,997	$1,460	$209,391	$189,208	$135,200	$54,008	$0	$20,183	$336,977		2057	0.395	$127,586	$119,129
	2058	0.382	$129,177	$120,720	$68,324	$17,782	$25,408	$9,205	$6,997	$1,460	$212,831	$192,648	$138,476	$54,172	$0	$20,183	$342,008		2058	0.382	$129,177	$120,720
	2059	0.369	$130,768	$122,311	$69,849	$17,723	$25,533	$9,207	$6,997	$1,460	$216,271	$196,088	$141,753	$54,336	$0	$20,183	$347,040		2059	0.369	$130,768	$122,311
	2060	0.356	$132,359	$123,902	$71,373	$17,663	$25,658	$9,208	$6,997	$1,460	$219,711	$199,528	$145,029	$54,499	$0	$20,183	$352,071		2060	0.356	$132,359	$123,902
	2061	0.344	$133,950	$125,493	$72,898	$17,604	$25,782	$9,209	$6,997	$1,460	$223,152	$202,969	$148,305	$54,663	$0	$20,183	$357,102		2061	0.344	$133,950	$125,493
	2062	0.333	$135,541	$127,084	$74,422	$17,544	$25,907	$9,210	$6,997	$1,460	$226,592	$206,409	$151,582	$54,827	$0	$20,183	$362,133		2062	0.333	$135,541	$127,084
	2063	0.321	$137,131	$128,674	$75,947	$17,485	$26,031	$9,211	$6,997	$1,460	$230,033	$209,850	$154,858	$54,992	$0	$20,183	$367,164		2063	0.321	$137,131	$128,674
	2064	0.310	$138,722	$130,265	$77,472	$17,426	$26,155	$9,213	$6,997	$1,460	$233,473	$213,290	$158,135	$55,156	$0	$20,183	$372,195		2064	0.310	$138,722	$130,265
	2065	0.300	$140,312	$131,855	$78,996	$17,366	$26,279	$9,214	$6,997	$1,460	$236,914	$216,731	$161,411	$55,320	$0	$20,183	$377,226		2065	0.300	$140,312	$131,855
	2066	0.290	$141,902	$133,445	$80,521	$17,307	$26,402	$9,215	$6,997	$1,460	$240,355	$220,172	$164,687	$55,485	$0	$20,183	$382,257		2066	0.290	$141,902	$133,445
	2067	0.280	$143,491	$135,034	$82,045	$17,247	$26,526	$9,216	$6,997	$1,460	$243,796	$223,613	$167,964	$55,649	$0	$20,183	$387,288		2067	0.280	$143,491	$135,034
	2068	0.271	$145,081	$136,624	$83,570	$17,188	$26,649	$9,217	$6,997	$1,460	$247,237	$227,054	$171,240	$55,814	$0	$20,183	$392,318		2068	0.271	$145,081	$136,624
	2069	0.261	$146,670	$138,213	$85,094	$17,128	$26,772	$9,218	$6,997	$1,460	$250,679	$230,496	$174,517	$55,979	$0	$20,183	$397,349		2069	0.261	$146,670	$138,213
WSIP Analysis Year @ 2070 levels	2070	0.253	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379	WSIP Analysis @ 2070 levels	2070	0.253	$148,259	$139,802
	2071	0.244	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2071	0.244	$148,259	$139,802
	2072	0.236	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2072	0.236	$148,259	$139,802
	2073	0.228	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2073	0.228	$148,259	$139,802
	2074	0.220	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2074	0.220	$148,259	$139,802
	2075	0.213	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2075	0.213	$148,259	$139,802
	2076	0.205	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2076	0.205	$148,259	$139,802
	2077	0.199	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2077	0.199	$148,259	$139,802
	2078	0.192	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2078	0.192	$148,259	$139,802
	2079	0.185	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2079	0.185	$148,259	$139,802
	2080	0.179	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2080	0.179	$148,259	$139,802
	2081	0.173	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2081	0.173	$148,259	$139,802
	2082	0.167	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2082	0.167	$148,259	$139,802
	2083	0.161	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2083	0.161	$148,259	$139,802
	2084	0.156	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2084	0.156	$148,259	$139,802
	2085	0.151	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2085	0.151	$148,259	$139,802
	2086	0.146	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2086	0.146	$148,259	$139,802
	2087	0.141	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2087	0.141	$148,259	$139,802
	2088	0.136	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2088	0.136	$148,259	$139,802
	2089	0.131	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2089	0.131	$148,259	$139,802
	2090	0.127	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2090	0.127	$148,259	$139,802
	2091	0.123	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2091	0.123	$148,259	$139,802
	2092	0.118	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2092	0.118	$148,259	$139,802
	2093	0.114	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2093	0.114	$148,259	$139,802
	2094	0.111	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2094	0.111	$148,259	$139,802
	2095	0.107	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2095	0.107	$148,259	$139,802
	2096	0.103	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2096	0.103	$148,259	$139,802
	2097	0.100	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2097	0.100	$148,259	$139,802
	2098	0.096	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2098	0.096	$148,259	$139,802
	2099	0.093	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2099	0.093	$148,259	$139,802
	2100	0.090	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2100	0.090	$148,259	$139,802
	2101	0.087	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2101	0.087	$148,259	$139,802
	2102	0.084	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2102	0.084	$148,259	$139,802
	2103	0.081	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2103	0.081	$148,259	$139,802
	2104	0.078	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2104	0.078	$148,259	$139,802
	2105	0.076	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2105	0.076	$148,259	$139,802
	2106	0.073	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2106	0.073	$148,259	$139,802
	2107	0.071	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2107	0.071	$148,259	$139,802
	2108	0.068	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2108	0.068	$148,259	$139,802
	2109	0.066	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2109	0.066	$148,259	$139,802
	2110	0.064	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2110	0.064	$148,259	$139,802
	2111	0.062	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2111	0.062	$148,259	$139,802
	2112	0.060	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2112	0.060	$148,259	$139,802
	2113	0.058	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2113	0.058	$148,259	$139,802
	2114	0.056	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2114	0.056	$148,259	$139,802
	2115	0.054	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2115	0.054	$148,259	$139,802
	2116	0.052	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2116	0.052	$148,259	$139,802
	2117	0.051	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2117	0.051	$148,259	$139,802
	2118	0.049	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2118	0.049	$148,259	$139,802
	2119	0.047	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2119	0.047	$148,259	$139,802
	2120	0.046	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2120	0.046	$148,259	$139,802
	2121	0.044	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379		2121	0.044	$148,259	$139,802
100 yr Period (Construction)	2122	0.042	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379	100 yr Period	2122	0.042	$148,259	$139,802

$110,626.62 $50,116.35
$160,742.96

2/22/18

(00s)

WSIP Public Benefits							Non-WSIP Benefits					
Total Ecosystem Improvement				Recreation	Flood Control	Total Non-WSIP	Total Water Supply	Water Supply			Hydropower (System)	Total Benefits
Anadromous	Incremental Oroville	Oroville	Yolo Bypass					M&I Water	Agricultural	Recaptured		
$25,637	$9,279	$8,174	$8,845	$6,997	$1,460	$103,261	$83,078	$46,737	$36,342	$0	$20,183	$163,653
$48,505	$18,557	$23,767	$9,190	$6,997	$1,460	$168,121	$147,938	$95,883	$52,055	$0	$20,183	$276,597
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$1,616,392	$448,066	$597,419	$259,210	$197,213	$44,630	$5,097,339	$4,527,852	$3,119,968	$1,407,885	$0	$569,487	$8,260,269
$56,985	$15,796	$21,062	$9,138	$6,953	$1,573	$179,704	$159,627	$109,993	$49,634	$0	$20,077	$291,211
$20,658	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$35,286
$728	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,244
$57,713	$15,796	$21,062	$9,138	$6,953	$1,573	$179,704	$159,627	$109,993	$49,634	$0	$20,077	$292,455
$1,637,050	$448,066	$597,419	$259,210	$197,213	$44,630	$5,097,339	$4,527,852	$3,119,968	$1,407,885	$0	$569,487	$8,295,555

Table A3-3. Summary of Monetized Benefits by Purpose (2015$; $1,000s)

Year	Total WSIP		Total Ecosystem Improvement	WSIP Public Benefits			Recreation	Flood	Total Non-WSIP	Water Supply	Non-WSIP Benefits			Hydropower (System)	Total Benefits
2030	$60,391	$51,934	$25,637	$9,279	$8,174	$8,845	$6,997	$1,460	$103,261	$83,078	$46,737	$36,342	$0	$20,183	$163,653
2045	$108,476	$100,019	$48,505	$18,557	$23,767	$9,190	$6,997	$1,460	$168,121	$147,938	$95,883	$52,055	$0	$20,183	$276,597
2070	$148,259	$139,802	$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
Annualized	$111,507	$102,981	$56,985	$15,796	$21,062	$9,138	$6,953	$1,573	$179,704	$159,627	$109,993	$49,634	$0	$20,077	$291,211

Anadromous Fish & Other Aquatic	Incremental Level 4 Refuge	Oroville Coldwater Pool	Yolo Bypass	Recreation	Flood Control	Total Non-WSIP Benefits	Total Water Supply	M&I Water Supply	Agricultural Water Supply	Recaptured Water	Hydropower (System)	Total Benefits
$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
$2,564	$0	$0	$884	$0	$730	$0	$0	$0	$0	$0	$0	$4,178
$3,846	$0	$0	$1,327	$0	$730	$0	$0	$0	$0	$0	$0	$5,902
$5,127	$0	$0	$2,653	$0	$1,460	$0	$0	$0	$0	$0	$0	$9,241
$7,691	$0	$0	$4,422	$0	$1,460	$0	$0	$0	$0	$0	$0	$13,573
$25,637	$9,279	$8,174	$8,845	$3,499	$1,460	$93,170	$83,078	$46,737	$36,342	$0	$10,091	$150,063
$27,161	$9,927	$9,136	$8,868	$3,499	$1,460	$97,476	$87,384	$50,013	$37,371	$0	$10,091	$157,526
$28,686	$10,571	$10,109	$8,891	$6,997	$1,460	$111,876	$91,693	$53,289	$38,403	$0	$20,183	$178,589
$30,211	$11,211	$11,093	$8,914	$6,997	$1,460	$116,186	$96,003	$56,566	$39,437	$0	$20,183	$186,072
$31,735	$11,846	$12,089	$8,937	$6,997	$1,460	$120,499	$100,316	$59,842	$40,474	$0	$20,183	$193,563
$33,260	$12,477	$13,095	$8,960	$6,997	$1,460	$124,815	$104,632	$63,119	$41,513	$0	$20,183	$201,064
$34,784	$13,104	$14,113	$8,983	$6,997	$1,460	$129,133	$108,950	$66,395	$42,555	$0	$20,183	$208,575
$36,309	$13,727	$15,142	$9,006	$6,997	$1,460	$133,454	$113,271	$69,671	$43,599	$0	$20,183	$216,094
$37,833	$14,346	$16,181	$9,029	$6,997	$1,460	$137,777	$117,594	$72,948	$44,646	$0	$20,183	$223,624
$39,358	$14,960	$17,232	$9,052	$6,997	$1,460	$142,103	$121,920	$76,224	$45,696	$0	$20,183	$231,162
$40,882	$15,570	$18,294	$9,075	$6,997	$1,460	$146,432	$126,249	$79,501	$46,749	$0	$20,183	$238,711
$42,407	$16,176	$19,367	$9,098	$6,997	$1,460	$150,764	$130,581	$82,777	$47,804	$0	$20,183	$246,269
$43,931	$16,778	$20,450	$9,121	$6,997	$1,460	$155,099	$134,916	$86,054	$48,862	$0	$20,183	$253,836
$45,456	$17,375	$21,545	$9,144	$6,997	$1,460	$159,437	$139,254	$89,330	$49,924	$0	$20,183	$261,413
$46,981	$17,968	$22,650	$9,167	$6,997	$1,460	$163,777	$143,594	$92,606	$50,988	$0	$20,183	$269,000
$48,505	$18,557	$23,767	$9,190	$6,997	$1,460	$168,121	$147,938	$95,883	$52,055	$0	$20,183	$276,597
$50,030	$18,497	$23,894	$9,191	$6,997	$1,460	$171,560	$151,377	$99,159	$52,217	$0	$20,183	$281,629
$51,554	$18,438	$24,021	$9,192	$6,997	$1,460	$174,998	$154,815	$102,436	$52,380	$0	$20,183	$286,661
$53,079	$18,378	$24,148	$9,193	$6,997	$1,460	$178,437	$158,254	$105,712	$52,542	$0	$20,183	$291,693
$54,603	$18,318	$24,275	$9,195	$6,997	$1,460	$181,876	$161,693	$108,988	$52,704	$0	$20,183	$296,724
$56,128	$18,259	$24,402	$9,196	$6,997	$1,460	$185,315	$165,132	$112,265	$52,867	$0	$20,183	$301,756
$57,652	$18,199	$24,528	$9,197	$6,997	$1,460	$188,754	$168,571	$115,541	$53,030	$0	$20,183	$306,788
$59,177	$18,140	$24,655	$9,198	$6,997	$1,460	$192,193	$172,010	$118,818	$53,193	$0	$20,183	$311,820
$60,701	$18,080	$24,781	$9,199	$6,997	$1,460	$195,632	$175,450	$122,094	$53,355	$0	$20,183	$316,851
$62,226	$18,021	$24,906	$9,201	$6,997	$1,460	$199,072	$178,889	$125,370	$53,519	$0	$20,183	$321,883
$63,751	$17,961	$25,032	$9,202	$6,997	$1,460	$202,512	$182,329	$128,647	$53,682	$0	$20,183	$326,914
$65,275	$17,902	$25,158	$9,203	$6,997	$1,460	$205,951	$185,768	$131,923	$53,845	$0	$20,183	$331,946
$66,800	$17,842	$25,283	$9,204	$6,997	$1,460	$209,391	$189,208	$135,200	$54,008	$0	$20,183	$336,977
$68,324	$17,782	$25,408	$9,205	$6,997	$1,460	$212,831	$192,648	$138,476	$54,172	$0	$20,183	$342,008
$69,849	$17,723	$25,533	$9,207	$6,997	$1,460	$216,271	$196,088	$141,753	$54,336	$0	$20,183	$347,040
$71,373	$17,663	$25,658	$9,208	$6,997	$1,460	$219,711	$199,528	$145,029	$54,499	$0	$20,183	$352,071
$72,898	$17,604	$25,782	$9,209	$6,997	$1,460	$223,152	$202,969	$148,305	$54,663	$0	$20,183	$357,102
$74,422	$17,544	$25,907	$9,210	$6,997	$1,460	$226,592	$206,409	$151,582	$54,827	$0	$20,183	$362,133
$75,947	$17,485	$26,031	$9,211	$6,997	$1,460	$230,033	$209,850	$154,858	$54,992	$0	$20,183	$367,164
$77,472	$17,426	$26,155	$9,213	$6,997	$1,460	$233,473	$213,290	$158,135	$55,156	$0	$20,183	$372,195
$78,996	$17,366	$26,279	$9,214	$6,997	$1,460	$236,914	$216,731	$161,411	$55,320	$0	$20,183	$377,226
$80,521	$17,307	$26,402	$9,215	$6,997	$1,460	$240,355	$220,172	$164,687	$55,485	$0	$20,183	$382,257
$82,045	$17,247	$26,526	$9,216	$6,997	$1,460	$243,796	$223,613	$167,964	$55,649	$0	$20,183	$387,287
$83,570	$17,188	$26,649	$9,217	$6,997	$1,460	$247,237	$227,054	$171,240	$55,814	$0	$20,183	$392,318
$85,094	$17,128	$26,772	$9,218	$6,997	$1,460	$250,679	$230,496	$174,517	$55,979	$0	$20,183	$397,349
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379
$86,619	$17,069	$26,895	$9,220	$6,997	$1,460	$254,120	$233,937	$177,793	$56,144	$0	$20,183	$402,379

Worksheet Name: Key Assumptions

Key Assumptions

Federal Discount Rate	3.500%
Federal Discount Rate - Shasta	3.500%
Project Planning Period (years)	93
Hydropower Analysis Period (years)	30
93 yr Project Conversion Factor	28.37

Substitution from other recreation options	20%
Max Fed Matching Construction ($M)	$730

Construction Pricing	Sites	
No Escalation	$4,824,200	
De-escalation to Oct 2015	$77,000	
Remove Mitigation	$0	Mitigation cost can be removed here.
Revised	$4,747,200	
Escalation	$700,000	
	4/26/17	
Last Year to Consider Percentages	2034	

Start of Year	1	Change to 0 for end of year
		This value matches total cost at end of year.

100.0%

8 YR Construction Schedule
Construction % Complete

Construction Year	Date	Milestone	% Complete
1	2019		0.0%
2	2020	Design	2.5%
3	2021	Design	2.5%
4	2022	Land Acquisition	2.8%
5	2023	Construction	14.7%
6	2024	Construction	17.4%
7	2025	Construction	18.8%
8	2026	Construction	16.9%
9	2027	Construction	12.1%
10	2028	Construction	6.2%
11	2029	Construction	6.0%
12	2030	Fully Operational	0.0%
13	2031		0.0%
14	2032		0.0%

All Urban Consumers	California Index	vs. 2015	vs. 2010
2000	174.8	1.43	1.30
2001	181.7	1.37	1.25
2002	186.1	1.34	1.22
2003	190.4	1.31	1.19
2004	195.4	1.28	1.16
2005	202.6	1.23	1.12
2006	210.5	1.19	1.08
2007	217.424	1.15	1.04
2008	224.807	1.11	1.01
2009	224.110	1.11	1.01
2010	226.919	1.10	1.00
2011	232.931	1.07	0.97
2012	238.155	1.05	0.95
2013	241.623	1.03	0.94
2014	246.055	1.01	0.92
2015	249.636	1.00	0.91
2016	255.329	0.98	0.89
2017 April	261.850	0.95	0.87
2017 Aug	263.473		1.0 2468.3

Source:
http://www.dof.ca.gov/Forecasting/Economics/Indicators/Inflation/

Worksheet Name: Refuge NOD 100yr Rev

in $1000s and TAF	Year	Adjustments		WSIP Benefit Value (Sacramento Valley)						NOD		
		Total		Wet	Above Normal	Below Normal	Dry	Critical		Wet	Above Normal	Below Normal
	2030	$0		$145	$190	$255	$275	$345		0.8	0.9	0.7
	2045	$0		$150	$200	$265	$285	$355		0.8	0.9	0.7
	2070	$0		$150	$200	$265	$285	$355		0.8	0.8	0.6
Start of Year	1											

	Year	PV Factor (2030)		WSIP Benefit Value (Sacramento Valley)						De		
				Wet	Above Normal	Below Normal	Dry	Critical		Wet	Above Normal	Below Normal
Construction Begins	2023	1.272		$145	$190	$255	$275	$345		0.0	0.0	0.0
	2024	1.229		$145	$190	$255	$275	$345		0.0	0.0	0.0
	2025	1.188		$145	$190	$255	$275	$345		0.0	0.0	0.0
	2026	1.148		$145	$190	$255	$275	$345		0.0	0.0	0.0
	2027	1.109		$145	$190	$255	$275	$345		0.0	0.0	0.0
	2028	1.071		$145	$190	$255	$275	$345		0.0	0.0	0.0
	2029	1.035		$145	$190	$255	$275	$345		0.0	0.0	0.0
Fully Operational (100%)	**2030**	**1.000**		**$145**	**$190**	**$255**	**$275**	**$345**		**0.8**	**0.9**	**0.7**
	2031	0.966		$145	$191	$256	$276	$346		0.8	0.9	0.7
	2032	0.934		$146	$191	$256	$276	$346		0.8	0.9	0.7
	2033	0.902		$146	$192	$257	$277	$347		0.8	0.9	0.7
	2034	0.871		$146	$193	$258	$278	$348		0.8	0.9	0.7
	2035	0.842		$147	$193	$258	$278	$348		0.8	0.9	0.7
	2036	0.814		$147	$194	$259	$279	$349		0.8	0.9	0.7
	2037	0.786		$147	$195	$260	$280	$350		0.8	0.9	0.7
	2038	0.759		$148	$195	$260	$280	$350		0.8	0.9	0.7
	2039	0.734		$148	$196	$261	$281	$351		0.8	0.9	0.7
	2040	0.709		$148	$197	$262	$282	$352		0.8	0.9	0.7
	2041	0.685		$149	$197	$262	$282	$352		0.8	0.9	0.7
	2042	0.662		$149	$198	$263	$283	$353		0.8	0.9	0.7
	2043	0.639		$149	$199	$264	$284	$354		0.8	0.9	0.7
	2044	0.618		$150	$199	$264	$284	$354		0.8	0.9	0.7
	2045	**0.597**		**$150**	**$200**	**$265**	**$285**	**$355**		**0.8**	**0.9**	**0.7**
	2046	0.577		$150	$200	$265	$285	$355		0.8	0.9	0.7
	2047	0.557		$150	$200	$265	$285	$355		0.8	0.9	0.7
	2048	0.538		$150	$200	$265	$285	$355		0.8	0.9	0.7
	2049	0.520		$150	$200	$265	$285	$355		0.8	0.9	0.7
	2050	0.503		$150	$200	$265	$285	$355		0.8	0.9	0.7
	2051	0.486		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2052	0.469		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2053	0.453		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2054	0.438		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2055	0.423		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2056	0.409		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2057	0.395		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2058	0.382		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2059	0.369		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2060	0.356		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2061	0.344		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2062	0.333		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2063	0.321		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2064	0.310		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2065	0.300		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2066	0.290		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2067	0.280		$150	$200	$265	$285	$355		0.8	0.8	0.7
	2068	0.271		$150	$200	$265	$285	$355		0.8	0.8	0.6
	2069	0.261		$150	$200	$265	$285	$355		0.8	0.8	0.6
WSIP Study Baseline	**2070**	**0.253**		**$150**	**$200**	**$265**	**$285**	**$355**		**0.8**	**0.8**	**0.6**
@ 2070 levels	2071	0.244		$150	$200	$265	$285	$355		0.8	0.8	0.6
	2072	0.236		$150	$200	$265	$285	$355		0.8	0.8	0.6
	2073	0.228		$150	$200	$265	$285	$355		0.8	0.8	0.6
	2074	0.220		$150	$200	$265	$285	$355		0.8	0.8	0.6
	2075	0.213		$150	$200	$265	$285	$355		0.8	0.8	0.6
	2076	0.205		$150	$200	$265	$285	$355		0.8	0.8	0.6
	2077	0.199		$150	$200	$265	$285	$355		0.8	0.8	0.6
	2078	0.192		$150	$200	$265	$285	$355		0.8	0.8	0.6
	2079	0.185		$150	$200	$265	$285	$355		0.8	0.8	0.6

	2080	0.179			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2081	0.173			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2082	0.167			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2083	0.161			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2084	0.156			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2085	0.151			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2086	0.146			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2087	0.141			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2088	0.136			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2089	0.131			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2090	0.127			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2091	0.123			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2092	0.118			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2093	0.114			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2094	0.111			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2095	0.107			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2096	0.103			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2097	0.100			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2098	0.096			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2099	0.093			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2100	0.090			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2101	0.087			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2102	0.084			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2103	0.081			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2104	0.078			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2105	0.076			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2106	0.073			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2107	0.071			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2108	0.068			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2109	0.066			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2110	0.064			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2111	0.062			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2112	0.060			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2113	0.058			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2114	0.056			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2115	0.054			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2116	0.052			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2117	0.050			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2118	0.048			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2119	0.047			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2120	0.045			$150	$200	$265	$285	$355	0.8	0.8	0.6
	2121	0.044			$150	$200	$265	$285	$355	0.8	0.8	0.6
100 yr Period (Construction Inclu	2122	0.042			$150	$200	$265	$285	$355	0.8	0.8	0.6

Deliveries (TAF) / Annual Benefit Value NOD Pricing ($1,000s) / Water Type Frequency: Sacramento Valley / Total Value to Use

Dry	Critical	Weighted Avg. w/ SV	Wet	Above Normal	Below Normal	Dry	Critical	Wet	Above Normal	Below Normal	Dry	Critical	Total Value to Use
0.5	0.1	0.6	$121	$179	$179	$125	$37	30.5%	14.6%	20.7%	19.5%	14.6%	$130
0.4	0.1	0.6	$125	$175	$180	$112	$32	30.9%	14.2%	18.9%	21.3%	14.6%	$126
0.3	0.1	0.5	$124	$151	$171	$84	$22	31.7%	13.4%	15.9%	24.4%	14.6%	$110

												NOD pricing	<mark>$3,444</mark>
												SV hydro	$121
												no conveyance	$0
													$0

Deliveries (TAF) / Annual Benefit Value Sacramento Valley ($1,000s) / Water Type Frequency: Sacramento Valley / Total Value to Use

Dry	Critical	Weighted Avg. w/ SV	Wet	Above Normal	Below Normal	Dry	Critical	Wet	Above Normal	Below Normal	Dry	Critical	Total Value to Use
0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%	$0
0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%	$0
0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%	$0
0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%	$0
0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%	$0
0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%	$0
0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%	$0
0.5	**0.1**	**0.6**	**$121**	**$179**	**$179**	**$125**	**$37**	**30.5%**	**14.6%**	**20.7%**	**19.5%**	**14.6%**	**$130**
0.4	0.1	0.6	$121	$179	$179	$124	$37	30.5%	14.6%	20.6%	19.6%	14.6%	$130
0.4	0.1	0.6	$122	$179	$179	$123	$37	30.5%	14.6%	20.5%	19.8%	14.6%	$130
0.4	0.1	0.6	$122	$179	$179	$122	$36	30.6%	14.5%	20.4%	19.9%	14.6%	$129
0.4	0.1	0.6	$122	$178	$179	$122	$36	30.6%	14.5%	20.2%	20.0%	14.6%	$129
0.4	0.1	0.6	$122	$178	$179	$121	$36	30.6%	14.5%	20.1%	20.1%	14.6%	$129
0.4	0.1	0.6	$123	$178	$179	$120	$35	30.7%	14.5%	20.0%	20.2%	14.6%	$129
0.4	0.1	0.6	$123	$177	$180	$119	$35	30.7%	14.4%	19.9%	20.4%	14.6%	$128
0.4	0.1	0.6	$123	$177	$180	$118	$35	30.7%	14.4%	19.8%	20.5%	14.6%	$128
0.4	0.1	0.6	$123	$177	$180	$117	$34	30.8%	14.4%	19.6%	20.6%	14.6%	$128
0.4	0.1	0.6	$124	$177	$180	$117	$34	30.8%	14.3%	19.5%	20.7%	14.6%	$128
0.4	0.1	0.6	$124	$176	$180	$116	$34	30.8%	14.3%	19.4%	20.9%	14.6%	$127
0.4	0.1	0.6	$124	$176	$180	$115	$33	30.9%	14.3%	19.3%	21.0%	14.6%	$127
0.4	0.1	0.6	$124	$176	$180	$114	$33	30.9%	14.2%	19.1%	21.1%	14.6%	$127
0.4	0.1	0.6	$125	$175	$180	$113	$33	30.9%	14.2%	19.0%	21.2%	14.6%	$126
0.4	**0.1**	**0.6**	**$125**	**$175**	**$180**	**$112**	**$32**	**30.9%**	**14.2%**	**18.9%**	**21.3%**	**14.6%**	**$126**
0.4	0.1	0.6	$125	$174	$180	$111	$32	31.0%	14.1%	18.8%	21.5%	14.6%	$126
0.4	0.1	0.6	$125	$173	$180	$110	$31	31.0%	14.1%	18.7%	21.6%	14.6%	$125
0.4	0.1	0.6	$125	$172	$179	$109	$31	31.0%	14.1%	18.5%	21.7%	14.6%	$124
0.4	0.1	0.6	$125	$171	$179	$108	$31	31.1%	14.1%	18.4%	21.8%	14.6%	$124
0.4	0.1	0.6	$125	$170	$178	$107	$30	31.1%	14.0%	18.3%	22.0%	14.6%	$123
0.4	0.1	0.6	$125	$169	$178	$105	$30	31.1%	14.0%	18.2%	22.1%	14.6%	$123
0.4	0.1	0.6	$125	$168	$178	$104	$29	31.2%	14.0%	18.0%	22.2%	14.6%	$122
0.4	0.1	0.6	$125	$167	$177	$103	$29	31.2%	13.9%	17.9%	22.3%	14.6%	$121
0.4	0.1	0.6	$125	$166	$177	$102	$28	31.2%	13.9%	17.8%	22.4%	14.6%	$121
0.4	0.1	0.6	$125	$165	$177	$101	$28	31.3%	13.9%	17.7%	22.6%	14.6%	$120
0.4	0.1	0.6	$125	$165	$176	$100	$28	31.3%	13.8%	17.6%	22.7%	14.6%	$119
0.3	0.1	0.6	$125	$164	$176	$99	$27	31.3%	13.8%	17.4%	22.8%	14.6%	$119
0.3	0.1	0.6	$125	$163	$176	$98	$27	31.3%	13.8%	17.3%	22.9%	14.6%	$118
0.3	0.1	0.6	$125	$162	$175	$96	$26	31.4%	13.8%	17.2%	23.0%	14.6%	$118
0.3	0.1	0.6	$125	$161	$175	$95	$26	31.4%	13.7%	17.1%	23.2%	14.6%	$117
0.3	0.1	0.6	$125	$160	$174	$94	$25	31.4%	13.7%	17.0%	23.3%	14.6%	$116
0.3	0.1	0.6	$124	$159	$174	$93	$25	31.5%	13.7%	16.8%	23.4%	14.6%	$116
0.3	0.1	0.6	$124	$158	$174	$92	$25	31.5%	13.6%	16.7%	23.5%	14.6%	$115
0.3	0.1	0.6	$124	$157	$173	$91	$24	31.5%	13.6%	16.6%	23.7%	14.6%	$114
0.3	0.1	0.6	$124	$156	$173	$90	$24	31.6%	13.6%	16.5%	23.8%	14.6%	$114
0.3	0.1	0.6	$124	$155	$173	$88	$23	31.6%	13.5%	16.3%	23.9%	14.6%	$113
0.3	0.1	0.6	$124	$154	$172	$87	$23	31.6%	13.5%	16.2%	24.0%	14.6%	$112
0.3	0.1	0.6	$124	$153	$172	$86	$23	31.6%	13.5%	16.1%	24.1%	14.6%	$112
0.3	0.1	0.5	$124	$152	$172	$85	$22	31.7%	13.4%	16.0%	24.3%	14.6%	$111
0.3	**0.1**	**0.5**	**$124**	**$151**	**$171**	**$84**	**$22**	**31.7%**	**13.4%**	**15.9%**	**24.4%**	**14.6%**	**$110**
0.3	0.1	0.5	$124	$151	$171	$84	$22	31.7%	13.4%	15.9%	24.4%	14.6%	$110
0.3	0.1	0.5	$124	$151	$171	$84	$22	31.7%	13.4%	15.9%	24.4%	14.6%	$110
0.3	0.1	0.5	$124	$151	$171	$84	$22	31.7%	13.4%	15.9%	24.4%	14.6%	$110
0.3	0.1	0.5	$124	$151	$171	$84	$22	31.7%	13.4%	15.9%	24.4%	14.6%	$110
0.3	0.1	0.5	$124	$151	$171	$84	$22	31.7%	13.4%	15.9%	24.4%	14.6%	$110
0.3	0.1	0.5	$124	$151	$171	$84	$22	31.7%	13.4%	15.9%	24.4%	14.6%	$110
0.3	0.1	0.5	$124	$151	$171	$84	$22	31.7%	13.4%	15.9%	24.4%	14.6%	$110
0.3	0.1	0.5	$124	$151	$171	$84	$22	31.7%	13.4%	15.9%	24.4%	14.6%	$110

0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110
0.3	0.1	0.5		$124	$151	$171	$84	$22			31.7%	13.4%	15.9%	24.4%	14.6%		$110

Worksheet Name: Refuge SOD 100yr Rev

in $1000s and TAF	Year	Conveyance Total	WSIP Benefit Value Delta Export (includes Conveyance) Wet	Above Normal	Below Normal	Dry	Critical	Deliveries (TAF) Wet	Above Normal	Below Normal	Dry	Critical	Weighted Avg. w/ SV	Annual Benefit Value San Joaquin Valley ($1,000s) Wet	Above Normal	Below Normal	Dry	Critical	Water Type Fre Wet	Above Normal
	2030	$21	$226	$276	$286	$306	$381	47.2	48.0	35.4	####	6.5	34.6	$10,658	$13,253	$10,130	$7,671	$2,479	30.5%	14.6%
	2045	$21	$436	$541	$656	$696	$1,076	46.4	45.2	34.2	####	6.2	33.1	$20,209	$24,477	$22,404	$16,379	$6,672	30.9%	14.2%
	2070	$21	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%

Start of Year: 1

2034

Label	Year	PV Factor (2030)	WSIP Benefit Value Delta Export Wet	Above Normal	Below Normal	Dry	Critical	Deliveries (TAF) Wet	Above Normal	Below Normal	Dry	Critical	Weighted Avg. w/ SV		SJV Benefit ($1,000s) Wet	Above Normal	Below Normal	Dry	Critical	Water Type Fre Wet	Above Normal
Construction Begins	2023	1.272	$226	$276	$286	$306	$381	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%
	2024	1.229	$226	$276	$286	$306	$381	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%
	2025	1.188	$226	$276	$286	$306	$381	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%
	2026	1.148	$226	$276	$286	$306	$381	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%
	2027	1.109	$226	$276	$286	$306	$381	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%
	2028	1.071	$226	$276	$286	$306	$381	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%
	2029	1.035	$226	$276	$286	$306	$381	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0	30.5%	14.6%
Fully Operational (100%)	2030	1.000	$226	$276	$286	$306	$381	47.2	48.0	35.4	####	6.5	34.6	35.2	$10,658	$13,253	$10,130	$7,671	$2,479	30.5%	14.6%
	2031	0.966	$240	$294	$311	$332	$427	47.1	47.8	35.3	####	6.5	34.5	35.1	$11,306	$14,047	$10,977	$8,288	$2,772	30.5%	14.6%
	2032	0.934	$254	$311	$335	$358	$474	47.1	47.6	35.2	####	6.5	34.4	35.0	$11,951	$14,834	$11,820	$8,901	$3,063	30.5%	14.6%
	2033	0.902	$268	$329	$360	$384	$520	47.0	47.5	35.2	####	6.4	34.3	34.9	$12,596	$15,615	$12,659	$9,508	$3,352	30.6%	14.5%
	2034	0.871	$282	$347	$385	$410	$566	46.9	47.3	35.1	####	6.4	34.2	34.8	$13,239	$16,390	$13,494	$10,110	$3,639	30.6%	14.5%
	2035	0.842	$296	$364	$409	$436	$613	46.9	47.1	35.0	####	6.4	34.1	34.7	$13,880	$17,157	$14,325	$10,706	$3,924	30.6%	14.5%
	2036	0.814	$310	$382	$434	$462	$659	46.8	46.9	34.9	####	6.4	34.0	34.6	$14,519	$17,919	$15,152	$11,297	$4,208	30.7%	14.5%
	2037	0.786	$324	$400	$459	$488	$705	46.8	46.7	34.8	####	6.4	33.9	34.5	$15,158	$18,674	$15,974	$11,883	$4,489	30.7%	14.4%
	2038	0.759	$338	$417	$483	$514	$752	46.7	46.5	34.7	####	6.3	33.8	34.4	$15,794	$19,422	$16,792	$12,464	$4,769	30.7%	14.4%
	2039	0.734	$352	$435	$508	$540	$798	46.7	46.4	34.7	####	6.3	33.7	34.3	$16,430	$20,164	$17,606	$13,039	$5,046	30.8%	14.4%
	2040	0.709	$366	$453	$533	$566	$844	46.6	46.2	34.6	####	6.3	33.6	34.2	$17,063	$20,899	$18,416	$13,609	$5,322	30.8%	14.3%
	2041	0.685	$380	$470	$557	$592	$891	46.6	46.0	34.5	####	6.3	33.5	34.1	$17,695	$21,628	$19,222	$14,174	$5,596	30.8%	14.3%
	2042	0.662	$394	$488	$582	$618	$937	46.5	45.8	34.4	####	6.3	33.4	34.0	$18,326	$22,350	$20,024	$14,733	$5,868	30.9%	14.3%
	2043	0.639	$408	$506	$607	$644	$983	46.5	45.6	34.3	####	6.2	33.3	33.9	$18,955	$23,066	$20,821	$15,287	$6,138	30.9%	14.2%
	2044	0.618	$422	$523	$631	$670	$1,030	46.4	45.4	34.2	####	6.2	33.2	33.8	$19,583	$23,775	$21,615	$15,835	$6,406	30.9%	14.2%
	2045	**0.597**	**$436**	**$541**	**$656**	**$696**	**$1,076**	**46.4**	**45.2**	**34.2**	**####**	**6.2**	**33.1**	**33.8**	**$20,209**	**$24,477**	**$22,404**	**$16,379**	**$6,672**	**30.9%**	**14.2%**
	2046	0.577	$436	$541	$656	$696	$1,076	46.3	45.1	34.1	####	6.2	33.0	33.7	$20,185	$24,377	$22,348	$16,307	$6,650	31.0%	14.1%
	2047	0.557	$436	$541	$656	$696	$1,076	46.2	44.9	34.0	####	6.2	33.0	33.6	$20,162	$24,277	$22,293	$16,236	$6,628	31.0%	14.1%
	2048	0.538	$436	$541	$656	$696	$1,076	46.2	44.7	33.9	####	6.1	32.9	33.5	$20,138	$24,177	$22,238	$16,165	$6,607	31.0%	14.1%
	2049	0.520	$436	$541	$656	$696	$1,076	46.1	44.5	33.8	####	6.1	32.8	33.4	$20,115	$24,078	$22,182	$16,094	$6,585	31.1%	14.1%
	2050	0.503	$436	$541	$656	$696	$1,076	46.1	44.3	33.7	####	6.1	32.7	33.3	$20,091	$23,978	$22,127	$16,023	$6,563	31.1%	14.0%
	2051	0.486	$436	$541	$656	$696	$1,076	46.0	44.1	33.6	####	6.1	32.6	33.2	$20,068	$23,878	$22,071	$15,952	$6,541	31.1%	14.0%
	2052	0.469	$436	$541	$656	$696	$1,076	46.0	44.0	33.6	####	6.1	32.5	33.1	$20,044	$23,778	$22,016	$15,880	$6,519	31.2%	14.0%
	2053	0.453	$436	$541	$656	$696	$1,076	45.9	43.8	33.5	####	6.0	32.4	32.9	$20,020	$23,678	$21,905	$15,738	$6,475	31.2%	13.9%
	2054	0.438	$436	$541	$656	$696	$1,076	45.9	43.6	33.4	####	6.0	32.3	32.9	$19,997	$23,478	$21,850	$15,667	$6,453	31.3%	13.9%
	2055	0.423	$436	$541	$656	$696	$1,076	45.8	43.4	33.3	####	6.0	32.2	32.8	$19,973	$23,378	$21,795	$15,596	$6,431	31.3%	13.9%
	2056	0.409	$436	$541	$656	$696	$1,076	45.8	43.2	33.2	####	6.0	32.1	32.7	$19,950	$23,278	$21,739	$15,524	$6,409	31.3%	13.8%
	2057	0.395	$436	$541	$656	$696	$1,076	45.7	43.0	33.1	####	6.0	32.0	32.6	$19,926	$23,278	$21,739	$15,524	$6,409	31.3%	13.8%
	2058	0.382	$436	$541	$656	$696	$1,076	45.6	42.8	33.1	####	5.9	31.9	32.5	$19,903	$23,178	$21,684	$15,453	$6,387	31.3%	13.8%
	2059	0.369	$436	$541	$656	$696	$1,076	45.6	42.7	33.0	####	5.9	31.8	32.4	$19,879	$23,078	$21,629	$15,382	$6,365	31.4%	13.8%
	2060	0.356	$436	$541	$656	$696	$1,076	45.5	42.5	32.9	####	5.9	31.7	32.3	$19,855	$22,978	$21,573	$15,311	$6,343	31.4%	13.7%
	2061	0.344	$436	$541	$656	$696	$1,076	45.5	42.3	32.8	####	5.9	31.6	32.2	$19,832	$22,878	$21,518	$15,240	$6,321	31.4%	13.7%
	2062	0.333	$436	$541	$656	$696	$1,076	45.4	42.1	32.7	####	5.9	31.5	32.1	$19,808	$22,778	$21,462	$15,168	$6,299	31.5%	13.7%
	2063	0.321	$436	$541	$656	$696	$1,076	45.4	41.9	32.6	####	5.8	31.4	32.0	$19,785	$22,678	$21,407	$15,097	$6,277	31.5%	13.6%
	2064	0.310	$436	$541	$656	$696	$1,076	45.3	41.7	32.5	####	5.8	31.3	31.9	$19,761	$22,578	$21,352	$15,026	$6,255	31.5%	13.6%
	2065	0.300	$436	$541	$656	$696	$1,076	45.3	41.5	32.5	####	5.8	31.2	31.8	$19,738	$22,478	$21,296	$14,955	$6,233	31.6%	13.6%
	2066	0.290	$436	$541	$656	$696	$1,076	45.2	41.4	32.4	####	5.8	31.1	31.7	$19,714	$22,378	$21,241	$14,884	$6,211	31.6%	13.5%
	2067	0.280	$436	$541	$656	$696	$1,076	45.2	41.2	32.3	####	5.8	31.0	31.6	$19,691	$22,278	$21,186	$14,812	$6,189	31.6%	13.5%
	2068	0.271	$436	$541	$656	$696	$1,076	45.1	41.0	32.2	####	5.7	30.9	31.5	$19,667	$22,178	$21,130	$14,741	$6,167	31.6%	13.5%
	2069	0.261	$436	$541	$656	$696	$1,076	45.1	40.8	32.1	####	5.7	30.8	31.4	$19,643	$22,078	$21,075	$14,670	$6,145	31.7%	13.4%
WSIP Study Baseline @ 2070 levels	2070	0.253	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2071	0.244	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2072	0.236	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2073	0.228	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2074	0.220	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2075	0.213	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2076	0.205	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2077	0.199	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2078	0.192	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2079	0.185	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2080	0.179	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2081	0.173	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2082	0.167	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2083	0.161	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2084	0.156	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2085	0.151	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2086	0.146	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2087	0.141	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2088	0.136	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2089	0.131	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2090	0.127	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2091	0.123	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2092	0.118	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2093	0.114	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2094	0.111	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2095	0.107	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2096	0.103	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2097	0.100	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2098	0.096	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2099	0.093	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2100	0.090	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2101	0.087	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2102	0.084	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2103	0.081	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2104	0.078	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2105	0.076	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2106	0.073	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2107	0.071	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2108	0.068	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2109	0.066	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2110	0.064	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2111	0.062	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2112	0.060	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2113	0.058	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2114	0.056	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2115	0.054	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2116	0.052	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2117	0.050	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2118	0.048	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2119	0.047	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2120	0.045	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
	2121	0.044	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%
100 yr Period (Construction Incl.)	2122	0.042	$436	$541	$656	$696	$1,076	45.0	40.6	32.0	####	5.7	30.7	31.3	$19,620	$21,978	$21,020	$14,599	$6,123	31.7%	13.4%

2/22/18

Section 1

quency: Sacramento Valley				Total Value to Use	Combined Level 4 SOD and NOD										Year	Level 4 Total Deliveries (TAF)					
Below Normal	Dry	Critical														Wet	Above Normal	Below Normal	Dry	Critical	Weighted Avg. w/ SV
20.7%	19.5%	14.6%		$9,148	$9,278.55										2030	48.0	49.0	36.1	25.5	6.6	35.2
18.9%	21.3%	14.6%		$18,431	$18,556.74										2045	47.2	46.1	34.8	23.9	6.3	33.8
15.9%	24.4%	14.6%		$16,958	$17,068.78										2070	45.8	41.4	32.7	21.3	5.8	31.3

Total Level 4 Annual Benefit Value San Joaquin Valley ($1,000s)

				Total Value to Use	Combined Level 4 SOD and NOD			Wet	Above Normal	Below Normal	Dry	Critical	Total
				$444,622	$448,066								
				$15,675	$15,796		2030	$10,780	$13,432	$10,308	$7,795	$2,517	$9,279
				$0	$0		2045	$20,334	$24,652	$22,584	$16,491	$6,705	$18,557
				$0	$0		2070	$19,744	$22,129	$21,191	$14,683	$6,145	$17,069
					Present Value Benefit ($2015 @ 100 yrs)			$505,356	$597,342	$542,694	$390,367	$155,997	$448,066
					Annualized Value Benefit ($2015 @ 100 yrs)			$17,816	$21,059	$19,132	$13,762	$5,500	$15,796
					PV - Early Operations Benefits (2026-2029)			$0	$0	$0	$0	$0	$0
					Additional Annualized Value			$0	$0	$0	$0	$0	$0

Section 2

quency: Sacramento Valley				Total Value to Use	Combined Level 4 SOD and NOD
Below Normal	Dry	Critical			
20.7%	19.5%	14.6%		$0	$0
20.7%	19.5%	14.6%		$0	$0
20.7%	19.5%	14.6%		$0	$0
20.7%	19.5%	14.6%		$0	$0
20.7%	19.5%	14.6%		$0	$0
20.7%	19.5%	14.6%		$0	$0
20.7%	19.5%	14.6%		$0	$0
20.7%	**19.5%**	**14.6%**		**$9,148**	**$9,279**
20.6%	19.6%	14.6%		$9,797	$9,927
20.5%	19.8%	14.6%		$10,441	$10,571
20.4%	19.9%	14.6%		$11,081	$11,211
20.2%	20.0%	14.6%		$11,717	$11,846
20.1%	20.1%	14.6%		$12,349	$12,477
20.0%	20.2%	14.6%		$12,976	$13,104
19.9%	20.4%	14.6%		$13,599	$13,727
19.8%	20.5%	14.6%		$14,218	$14,346
19.6%	20.6%	14.6%		$14,832	$14,960
19.5%	20.7%	14.6%		$15,443	$15,570
19.4%	20.9%	14.6%		$16,049	$16,176
19.3%	21.0%	14.6%		$16,650	$16,778
19.1%	21.1%	14.6%		$17,248	$17,375
19.0%	21.2%	14.6%		$17,841	$17,968
18.9%	**21.3%**	**14.6%**		**$18,431**	**$18,557**
18.8%	21.5%	14.6%		$18,372	$18,497
18.7%	21.6%	14.6%		$18,313	$18,438
18.5%	21.7%	14.6%		$18,254	$18,378
18.4%	21.8%	14.6%		$18,195	$18,318
18.3%	22.0%	14.6%		$18,136	$18,259
18.2%	22.1%	14.6%		$18,077	$18,199
18.0%	22.2%	14.6%		$18,018	$18,140
17.9%	22.3%	14.6%		$17,959	$18,080
17.8%	22.4%	14.6%		$17,900	$18,021
17.7%	22.6%	14.6%		$17,841	$17,961
17.6%	22.7%	14.6%		$17,782	$17,902
17.4%	22.8%	14.6%		$17,723	$17,842
17.3%	22.9%	14.6%		$17,664	$17,782
17.2%	23.0%	14.6%		$17,605	$17,723
17.1%	23.2%	14.6%		$17,547	$17,663
17.0%	23.3%	14.6%		$17,488	$17,604
16.8%	23.4%	14.6%		$17,429	$17,544
16.7%	23.5%	14.6%		$17,370	$17,485
16.6%	23.7%	14.6%		$17,311	$17,426
16.5%	23.8%	14.6%		$17,252	$17,366
16.3%	23.9%	14.6%		$17,194	$17,307
16.2%	24.0%	14.6%		$17,135	$17,247
16.1%	24.1%	14.6%		$17,076	$17,188
16.0%	24.3%	14.6%		$17,017	$17,128
15.9%	**24.4%**	**14.6%**		**$16,958**	**$17,069**
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069
15.9%	24.4%	14.6%		$16,958	$17,069

Worksheet Name: Shasta Unit Value 100yr Rev

in $1000s and TAF		Adjustment		WSIP Benefit Value Delta Export w/ Adjustment							Deliveries (TAF)				
		Total		Wet	Above Normal	Below Normal	Dry	Critical			Wet	Above Normal	Below Normal	Dry	Critical
	2030	$80.1		$285.1	$335.1	$345.1	$365.1	$440.1			18	182	65	57	181
	2045	$80.1		$495.1	$600.1	$715.1	$755.1	$1,135.1			8	153	36	57	206
	2070	$80.1		$495.1	$600.1	$715.1	$755.1	$1,135.1			-8	104	-13	56	247

Start of Year	1													
														Presen
														Annualized
	2034													PV - Early

	Year	PV Factor (2030)		WSIP Benefit Value Delta Export							Deliveries (TAF)				
	Year			Wet	Above Normal	Below Normal	Dry	Critical			Wet	Above Normal	Below Normal	Dry	Critical
Construction Begins	2023	1.272		$285	$335	$345	$365	$440			0	0	0	0	0
	2024	1.229		$285	$335	$345	$365	$440			0	0	0	0	0
	2025	1.188		$285	$335	$345	$365	$440			0	0	0	0	0
	2026	1.148		$285	$335	$345	$365	$440			2	18	7	6	18
	2027	1.109		$285	$335	$345	$365	$440			3	27	10	9	27
	2028	1.071		$285	$335	$345	$365	$440			4	36	13	11	36
	2029	1.035		$285	$335	$345	$365	$440			5	55	20	17	54
Fully Operational (100%)	**2030**	**1.000**		**$285**	**$335**	**$345**	**$365**	**$440**			**18**	**182**	**65**	**57**	**181**
	2031	0.966		$299	$353	$370	$391	$486			17	180	63	57	183
	2032	0.934		$313	$370	$394	$417	$533			17	178	61	57	184
	2033	0.902		$327	$388	$419	$443	$579			16	176	59	57	186
	2034	0.871		$341	$406	$444	$469	$625			15	174	57	57	188
	2035	0.842		$355	$423	$468	$495	$672			15	172	55	57	189
	2036	0.814		$369	$441	$493	$521	$718			14	170	53	57	191
	2037	0.786		$383	$459	$518	$547	$764			13	168	51	57	193
	2038	0.759		$397	$476	$542	$573	$811			13	166	49	57	194
	2039	0.734		$411	$494	$567	$599	$857			12	164	47	57	196
	2040	0.709		$425	$512	$592	$625	$903			12	163	46	57	198
	2041	0.685		$439	$529	$616	$651	$950			11	161	44	57	199
	2042	0.662		$453	$547	$641	$677	$996			10	159	42	57	201
	2043	0.639		$467	$565	$666	$703	$1,042			10	157	40	57	202
	2044	0.618		$481	$582	$690	$729	$1,089			9	155	38	57	204
	2045	0.597		$495	$600	$715	$755	$1,135			8	153	36	57	206
	2046	0.577		$495	$600	$715	$755	$1,135			8	151	34	57	207
	2047	0.557		$495	$600	$715	$755	$1,135			7	149	32	57	209
	2048	0.538		$495	$600	$715	$755	$1,135			6	147	30	57	211
	2049	0.520		$495	$600	$715	$755	$1,135			6	145	28	57	212
	2050	0.503		$495	$600	$715	$755	$1,135			5	143	26	57	214
	2051	0.486		$495	$600	$715	$755	$1,135			4	141	24	56	216
	2052	0.469		$495	$600	$715	$755	$1,135			4	139	22	56	217
	2053	0.453		$495	$600	$715	$755	$1,135			3	137	20	56	219
	2054	0.438		$495	$600	$715	$755	$1,135			2	135	18	56	221
	2055	0.423		$495	$600	$715	$755	$1,135			2	133	16	56	222
	2056	0.409		$495	$600	$715	$755	$1,135			1	131	14	56	224
	2057	0.395		$495	$600	$715	$755	$1,135			0	129	12	56	226
	2058	0.382		$495	$600	$715	$755	$1,135			0	127	10	56	227
	2059	0.369		$495	$600	$715	$755	$1,135			-1	125	8	56	229
	2060	0.356		$495	$600	$715	$755	$1,135			-2	124	7	56	231
	2061	0.344		$495	$600	$715	$755	$1,135			-2	122	5	56	232
	2062	0.333		$495	$600	$715	$755	$1,135			-3	120	3	56	234
	2063	0.321		$495	$600	$715	$755	$1,135			-3	118	1	56	235
	2064	0.310		$495	$600	$715	$755	$1,135			-4	116	-1	56	237
	2065	0.300		$495	$600	$715	$755	$1,135			-5	114	-3	56	239
	2066	0.290		$495	$600	$715	$755	$1,135			-5	112	-5	56	240
	2067	0.280		$495	$600	$715	$755	$1,135			-6	110	-7	56	242
	2068	0.271		$495	$600	$715	$755	$1,135			-7	108	-9	56	244
	2069	0.261		$495	$600	$715	$755	$1,135			-7	106	-11	56	245
WSIP Study Baseline	**2070**	0.253		$495	$600	$715	$755	$1,135			**-8**	**104**	**-13**	**56**	**247**
@ 2070 levels	2071	0.244		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2072	0.236		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2073	0.228		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2074	0.220		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2075	0.213		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2076	0.205		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2077	0.199		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2078	0.192		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2079	0.185		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2080	0.179		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2081	0.173		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2082	0.167		$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2083	0.161		$495	$600	$715	$755	$1,135			-8	104	-13	56	247

	2084	0.156			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2085	0.151			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2086	0.146			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2087	0.141			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2088	0.136			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2089	0.131			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2090	0.127			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2091	0.123			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2092	0.118			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2093	0.114			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2094	0.111			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2095	0.107			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2096	0.103			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2097	0.100			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2098	0.096			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2099	0.093			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2100	0.090			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2101	0.087			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2102	0.084			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2103	0.081			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2104	0.078			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2105	0.076			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2106	0.073			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2107	0.071			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2108	0.068			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2109	0.066			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2110	0.064			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2111	0.062			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2112	0.060			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2113	0.058			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2114	0.056			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2115	0.054			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2116	0.052			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2117	0.050			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2118	0.048			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2119	0.047			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2120	0.045			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
	2121	0.044			$495	$600	$715	$755	$1,135			-8	104	-13	56	247
100 yr Period (Construction Inclu	2122	0.042			$495	$600	$715	$755	$1,135			-8	104	-13	56	247

Annual Benefit Value San Joaquin Valley ($1,000s) / Water Type Frequency: Sacramento Valley

Weighted Avg. w/ SV		Wet	Above Normal	Below Normal	Dry	Critical		Wet	Above Normal	Below Normal	Dry	Critical		Total Value to Use
83		$5,060	$60,134	$22,117	$20,519	$78,543		30.5%	14.6%	20.7%	19.5%	14.6%		$30,426
73		$4,027	$90,382	$25,207	$42,159	$230,277		30.9%	14.2%	18.9%	21.3%	14.6%		$61,521
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188

		Wet	Above Normal	Below Normal	Dry	Critical	Total							Total Value to Use
														$1,476,285
	2030	$5,060	$60,134	$22,117	$20,519	$78,543	$30,426							$52,046
	2045	$4,027	$90,382	$25,207	$42,159	$230,277	$61,521							$24,517
	2070	($3,905)	$61,537	($9,166)	$41,694	$276,445	$56,188							$864
Value Benefit ($2015 @ 100 yrs)		$42,493	$2,069,961	$355,919	$1,042,703	$5,938,821	$1,476,285							
Value Benefit ($2015 @ 100 yrs)		$1,498	$72,975	$12,548	$36,760	$209,370	$52,046							
Operations Benefits (2026-2029)		$4,077	$48,457	$17,822	$16,535	$63,290	$24,517							
Additional Annualized Value		$144	$1,708	$628	$583	$2,231	$864							

Annual Benefit Value San Joaquin Valley ($1,000s) / Water Type Frequency: Sacramento Valley

Weighted Avg. w/ SV		Wet	Above Normal	Below Normal	Dry	Critical		Wet	Above Normal	Below Normal	Dry	Critical		Total Value to Use
0		$0	$0	$0	$0	$0		30.5%	14.6%	20.7%	19.5%	14.6%		$0
0		$0	$0	$0	$0	$0		30.5%	14.6%	20.7%	19.5%	14.6%		$0
0		$0	$0	$0	$0	$0		30.5%	14.6%	20.7%	19.5%	14.6%		$0
8		$506	$6,013	$2,212	$2,052	$7,854		30.5%	14.6%	20.7%	19.5%	14.6%		$3,043
12		$759	$9,020	$3,318	$3,078	$11,781		30.5%	14.6%	20.7%	19.5%	14.6%		$4,564
17		$1,012	$12,027	$4,423	$4,104	$15,709		30.5%	14.6%	20.7%	19.5%	14.6%		$6,085
25		$1,518	$18,040	$6,635	$6,156	$23,563		30.5%	14.6%	20.7%	19.5%	14.6%		$9,128
83		$5,060	$60,134	$22,117	$20,519	$78,543		**30.5%**	**14.6%**	**20.7%**	**19.5%**	**14.6%**		**$30,426**
82		$5,117	$62,626	$22,987	$21,971	$87,603		30.5%	14.6%	20.6%	19.6%	14.6%		$32,579
82		$5,156	$65,051	$23,762	$23,421	$96,814		30.5%	14.6%	20.5%	19.8%	14.6%		$34,718
81		$5,176	$67,407	$24,443	$24,870	$106,176		30.6%	14.5%	20.4%	19.9%	14.6%		$36,845
80		$5,179	$69,695	$25,028	$26,318	$115,689		30.6%	14.5%	20.2%	20.0%	14.6%		$38,960
80		$5,164	$71,915	$25,519	$27,765	$125,352		30.6%	14.5%	20.1%	20.1%	14.6%		$41,063
79		$5,131	$74,068	$25,914	$29,210	$135,166		30.7%	14.5%	20.0%	20.2%	14.6%		$43,154
78		$5,081	$76,152	$26,215	$30,654	$145,131		30.7%	14.4%	19.9%	20.4%	14.6%		$45,234
78		$5,012	$78,169	$26,421	$32,096	$155,247		30.7%	14.4%	19.8%	20.5%	14.6%		$47,303
77		$4,925	$80,117	$26,532	$33,538	$165,513		30.8%	14.4%	19.6%	20.6%	14.6%		$49,362
76		$4,820	$81,998	$26,548	$34,978	$175,930		30.8%	14.3%	19.5%	20.7%	14.6%		$51,411
76		$4,698	$83,811	$26,470	$36,417	$186,498		30.8%	14.3%	19.4%	20.9%	14.6%		$53,451
75		$4,557	$85,555	$26,296	$37,854	$197,217		30.9%	14.3%	19.3%	21.0%	14.6%		$55,481
74		$4,398	$87,232	$26,028	$39,290	$208,086		30.9%	14.2%	19.1%	21.1%	14.6%		$57,503
74		$4,222	$88,841	$25,665	$40,725	$219,106		30.9%	14.2%	19.0%	21.2%	14.6%		$59,516
73		$4,027	$90,382	$25,207	$42,159	$230,277		30.9%	14.2%	18.9%	21.3%	14.6%		**$61,521**
73		$3,710	$89,228	$23,832	$42,140	$232,124		31.0%	14.1%	18.8%	21.5%	14.6%		$61,262
72		$3,393	$88,074	$22,457	$42,122	$233,971		31.0%	14.1%	18.7%	21.6%	14.6%		$61,006
71		$3,075	$86,921	$21,082	$42,103	$235,817		31.0%	14.1%	18.5%	21.7%	14.6%		$60,755
71		$2,758	$85,767	$19,707	$42,084	$237,664		31.1%	14.1%	18.4%	21.8%	14.6%		$60,507
70		$2,441	$84,613	$18,332	$42,066	$239,511		31.1%	14.0%	18.3%	22.0%	14.6%		$60,263
69		$2,124	$83,459	$16,957	$42,047	$241,357		31.1%	14.0%	18.2%	22.1%	14.6%		$60,023
69		$1,806	$82,305	$15,582	$42,029	$243,204		31.2%	14.0%	18.0%	22.2%	14.6%		$59,787
68		$1,489	$81,151	$14,208	$42,010	$245,051		31.2%	13.9%	17.9%	22.3%	14.6%		$59,555
68		$1,172	$79,998	$12,833	$41,991	$246,897		31.2%	13.9%	17.8%	22.4%	14.6%		$59,326
67		$854	$78,844	$11,458	$41,973	$248,744		31.3%	13.9%	17.7%	22.6%	14.6%		$59,101
67		$537	$77,690	$10,083	$41,954	$250,591		31.3%	13.8%	17.6%	22.7%	14.6%		$58,880
66		$220	$76,536	$8,708	$41,936	$252,437		31.3%	13.8%	17.4%	22.8%	14.6%		$58,663
65		($98)	$75,382	$7,333	$41,917	$254,284		31.3%	13.8%	17.3%	22.9%	14.6%		$58,450
65		($415)	$74,229	$5,958	$41,898	$256,131		31.4%	13.8%	17.2%	23.0%	14.6%		$58,240
64		($732)	$73,075	$4,583	$41,880	$257,978		31.4%	13.7%	17.1%	23.2%	14.6%		$58,035
64		($1,050)	$71,921	$3,208	$41,861	$259,824		31.4%	13.7%	17.0%	23.3%	14.6%		$57,833
63		($1,367)	$70,767	$1,833	$41,843	$261,671		31.5%	13.7%	16.8%	23.4%	14.6%		$57,635
63		($1,684)	$69,613	$458	$41,824	$263,518		31.5%	13.6%	16.7%	23.5%	14.6%		$57,441
62		($2,001)	$68,460	($917)	$41,805	$265,364		31.5%	13.6%	16.6%	23.7%	14.6%		$57,250
62		($2,319)	$67,306	($2,292)	$41,787	$267,211		31.6%	13.6%	16.5%	23.8%	14.6%		$57,064
61		($2,636)	$66,152	($3,666)	$41,768	$269,058		31.6%	13.5%	16.3%	23.9%	14.6%		$56,881
61		($2,953)	$64,998	($5,041)	$41,749	$270,904		31.6%	13.5%	16.2%	24.0%	14.6%		$56,702
60		($3,271)	$63,844	($6,416)	$41,731	$272,751		31.6%	13.5%	16.1%	24.1%	14.6%		$56,527
60		($3,588)	$62,690	($7,791)	$41,712	$274,598		31.7%	13.4%	16.0%	24.3%	14.6%		$56,355
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		**31.7%**	**13.4%**	**15.9%**	**24.4%**	**14.6%**		**$56,188**
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59		($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188

59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188
59			($3,905)	$61,537	($9,166)	$41,694	$276,445		31.7%	13.4%	15.9%	24.4%	14.6%		$56,188

Worksheet Name: Oroville Rev

in $1000s and TAF		Adjustment	WSIP Benefit Value Delta Export							Deliveries (TAF)				
		Total	**Wet**	**Above Normal**	**Below Normal**	**Dry**	**Critical**			**Wet**	**Above Normal**	**Below Normal**	**Dry**	**Critical**
	2030	$0	$205	$255	$265	$285	$360			-1.4	5.6	28.0	38.2	83.4
	2045	$0	$415	$520	$635	$675	$1,055			-0.9	3.0	30.6	38.4	93.7
	2070	$0	$415	$520	$635	$675	$1,055			0.0	-1.4	34.9	38.6	111.0

Start of Year	1								
									Present Value
									Annualized Value
	2034								PV - Early Operat

	Year	PV Factor (2030)	WSIP Benefit Value Delta Export							Deliveries (TAF)				
	Year		**Wet**	**Above Normal**	**Below Normal**	**Dry**	**Critical**			**Wet**	**Above Normal**	**Below Normal**	**Dry**	**Critical**
Construction Begins	2023	1.272	$205	$255	$265	$285	$360			0	0	0	0	0
	2024	1.229	$205	$255	$265	$285	$360			0	0	0	0	0
	2025	1.188	$205	$255	$265	$285	$360			0	0	0	0	0
	2026	1.148	$205	$255	$265	$285	$360			0	0	0	0	0
	2027	1.109	$205	$255	$265	$285	$360			0	0	0	0	0
	2028	1.071	$205	$255	$265	$285	$360			0	0	0	0	0
	2029	1.035	$205	$255	$265	$285	$360			0	0	0	0	0
Fully Operational (100%)	**2030**	1.000	$205	$255	$265	$285	$360			**-1**	**6**	**28**	**38**	**83**
	2031	0.966	$219	$273	$290	$311	$406			-1	5	28	38	84
	2032	0.934	$233	$290	$314	$337	$453			-1	5	28	38	85
	2033	0.902	$247	$308	$339	$363	$499			-1	5	28	38	85
	2034	0.871	$261	$326	$364	$389	$545			-1	5	29	38	86
	2035	0.842	$275	$343	$388	$415	$592			-1	5	29	38	87
	2036	0.814	$289	$361	$413	$441	$638			-1	5	29	38	88
	2037	0.786	$303	$379	$438	$467	$684			-1	4	29	38	88
	2038	0.759	$317	$396	$462	$493	$731			-1	4	29	38	89
	2039	0.734	$331	$414	$487	$519	$777			-1	4	30	38	90
	2040	0.709	$345	$432	$512	$545	$823			-1	4	30	38	90
	2041	0.685	$359	$449	$536	$571	$870			-1	4	30	38	91
	2042	0.662	$373	$467	$561	$597	$916			-1	3	30	38	92
	2043	0.639	$387	$485	$586	$623	$962			-1	3	30	38	92
	2044	0.618	$401	$502	$610	$649	$1,009			-1	3	30	38	93
	2045	0.597	$415	$520	$635	$675	$1,055			-1	3	31	38	94
	2046	0.577	$415	$520	$635	$675	$1,055			-1	3	31	38	94
	2047	0.557	$415	$520	$635	$675	$1,055			-1	3	31	38	95
	2048	0.538	$415	$520	$635	$675	$1,055			-1	2	31	38	96
	2049	0.520	$415	$520	$635	$675	$1,055			-1	2	31	38	96
	2050	0.503	$415	$520	$635	$675	$1,055			-1	2	31	38	97
	2051	0.486	$415	$520	$635	$675	$1,055			-1	2	32	38	98
	2052	0.469	$415	$520	$635	$675	$1,055			-1	2	32	38	99
	2053	0.453	$415	$520	$635	$675	$1,055			-1	2	32	38	99
	2054	0.438	$415	$520	$635	$675	$1,055			-1	1	32	38	100
	2055	0.423	$415	$520	$635	$675	$1,055			-1	1	32	38	101
	2056	0.409	$415	$520	$635	$675	$1,055			-1	1	32	38	101
	2057	0.395	$415	$520	$635	$675	$1,055			0	1	33	38	102
	2058	0.382	$415	$520	$635	$675	$1,055			0	1	33	38	103
	2059	0.369	$415	$520	$635	$675	$1,055			0	1	33	38	103
	2060	0.356	$415	$520	$635	$675	$1,055			0	0	33	39	104
	2061	0.344	$415	$520	$635	$675	$1,055			0	0	33	39	105
	2062	0.333	$415	$520	$635	$675	$1,055			0	0	33	39	105
	2063	0.321	$415	$520	$635	$675	$1,055			0	0	34	39	106
	2064	0.310	$415	$520	$635	$675	$1,055			0	0	34	39	107
	2065	0.300	$415	$520	$635	$675	$1,055			0	0	34	39	108
	2066	0.290	$415	$520	$635	$675	$1,055			0	-1	34	39	108
	2067	0.280	$415	$520	$635	$675	$1,055			0	-1	34	39	109
	2068	0.271	$415	$520	$635	$675	$1,055			0	-1	35	39	110
	2069	0.261	$415	$520	$635	$675	$1,055			0	-1	35	39	110
WSIP Study Baseline	**2070**	0.253	$415	$520	$635	$675	$1,055			**0**	**-1**	**35**	**39**	**111**
@ 2070 levels	2071	0.244	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2072	0.236	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2073	0.228	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2074	0.220	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2075	0.213	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2076	0.205	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2077	0.199	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2078	0.192	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2079	0.185	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2080	0.179	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2081	0.173	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2082	0.167	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2083	0.161	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2084	0.156	$415	$520	$635	$675	$1,055			0	-1	35	39	111

	2085	0.151	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2086	0.146	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2087	0.141	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2088	0.136	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2089	0.131	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2090	0.127	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2091	0.123	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2092	0.118	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2093	0.114	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2094	0.111	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2095	0.107	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2096	0.103	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2097	0.100	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2098	0.096	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2099	0.093	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2100	0.090	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2101	0.087	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2102	0.084	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2103	0.081	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2104	0.078	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2105	0.076	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2106	0.073	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2107	0.071	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2108	0.068	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2109	0.066	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2110	0.064	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2111	0.062	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2112	0.060	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2113	0.058	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2114	0.056	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2115	0.054	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2116	0.052	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2117	0.050	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2118	0.048	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2119	0.047	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2120	0.045	$415	$520	$635	$675	$1,055			0	-1	35	39	111
	2121	0.044	$415	$520	$635	$675	$1,055			0	-1	35	39	111
100 yr Period (Construction Inclu	2122	0.042	$415	$520	$635	$675	$1,055			0	-1	35	39	111

Annual Benefit Value Delta Export ($1,000s) / Water Type Frequency: Sacramento Valley

Weighted Avg. w/ SV		Wet	Above Normal	Below Normal	Dry	Critical		Wet	Above Normal	Below Normal	Dry	Critical		Total Value to Use
25.8		($292)	$1,417	$7,416	$10,898	$30,011		30.5%	14.6%	20.7%	19.5%	14.6%		$8,174
27.8		($375)	$1,540	$19,407	$25,903	$98,864		30.9%	14.2%	18.9%	21.3%	14.6%		$23,767
31.0		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895

		Wet	Above Normal	Below Normal	Dry	Critical	Total							Total Value to Use
														$597,419
	2030	($292)	$1,417	$7,416	$10,898	$30,011	$8,174							$21,799
	2045	($375)	$1,540	$19,407	$25,903	$98,864	$23,767							$0
	2070	($12)	($709)	$22,137	$26,054	$117,054	$26,895							$0
Benefit ($2015 @ 100 yrs)		($6,493)	$20,717	$494,786	$633,194	$2,507,393	$597,419							
Benefit ($2015 @ 100 yrs)		($229)	$730	$17,443	$22,323	$88,397	$21,062							
ions Benefits (2026-2029)		$0	$0	$0	$0	$0	$0							
dditional Annualized Value		$0	$0	$0	$0	$0	$0							

Annual Benefit Value San Joaquin Valley ($1,000s) / Water Type Frequency: Sacramento Valley

Weighted Avg. w/ SV		Wet	Above Normal	Below Normal	Dry	Critical		Wet	Above Normal	Below Normal	Dry	Critical		Total Value to Use
0		$0	$0	$0	$0	$0		30.5%	14.6%	20.7%	19.5%	14.6%		$0
0		$0	$0	$0	$0	$0		30.5%	14.6%	20.7%	19.5%	14.6%		$0
0		$0	$0	$0	$0	$0		30.5%	14.6%	20.7%	19.5%	14.6%		$0
0		$0	$0	$0	$0	$0		30.5%	14.6%	20.7%	19.5%	14.6%		$0
0		$0	$0	$0	$0	$0		30.5%	14.6%	20.7%	19.5%	14.6%		$0
0		$0	$0	$0	$0	$0		30.5%	14.6%	20.7%	19.5%	14.6%		$0
0		$0	$0	$0	$0	$0		30.5%	14.6%	20.7%	19.5%	14.6%		$0
26		($292)	$1,417	$7,416	$10,898	$30,011		**30.5%**	**14.6%**	**20.7%**	**19.5%**	**14.6%**		**$8,174**
26		($305)	$1,468	$8,156	$11,895	$34,154		30.5%	14.6%	20.6%	19.6%	14.6%		$9,136
26		($316)	$1,513	$8,904	$12,893	$38,361		30.5%	14.6%	20.5%	19.8%	14.6%		$10,109
26		($326)	$1,552	$9,661	$13,891	$42,632		30.6%	14.5%	20.4%	19.9%	14.6%		$11,093
26		($336)	$1,584	$10,427	$14,889	$46,966		30.6%	14.5%	20.2%	20.0%	14.6%		$12,089
27		($344)	$1,611	$11,201	$15,888	$51,365		30.6%	14.5%	20.1%	20.1%	14.6%		$13,095
27		($352)	$1,631	$11,983	$16,887	$55,827		30.7%	14.5%	20.0%	20.2%	14.6%		$14,113
27		($358)	$1,646	$12,774	$17,887	$60,353		30.7%	14.4%	19.9%	20.4%	14.6%		$15,142
27		($364)	$1,654	$13,574	$18,887	$64,943		30.7%	14.4%	19.8%	20.5%	14.6%		$16,181
27		($368)	$1,656	$14,381	$19,888	$69,597		30.8%	14.4%	19.6%	20.6%	14.6%		$17,232
27		($372)	$1,652	$15,198	$20,889	$74,315		30.8%	14.3%	19.5%	20.7%	14.6%		$18,294
27		($374)	$1,642	$16,023	$21,891	$79,097		30.8%	14.3%	19.4%	20.9%	14.6%		$19,367
27		($376)	$1,626	$16,856	$22,893	$83,943		30.9%	14.3%	19.3%	21.0%	14.6%		$20,450
28		($376)	$1,603	$17,698	$23,896	$88,853		30.9%	14.2%	19.1%	21.1%	14.6%		$21,545
28		($376)	$1,575	$18,548	$24,899	$93,827		30.9%	14.2%	19.0%	21.2%	14.6%		$22,650
28		($375)	$1,540	$19,407	$25,903	$98,864		30.9%	14.2%	18.9%	21.3%	14.6%		**$23,767**
28		($360)	$1,450	$19,516	$25,909	$99,592		31.0%	14.1%	18.8%	21.5%	14.6%		$23,894
28		($346)	$1,360	$19,626	$25,915	$100,319		31.0%	14.1%	18.7%	21.6%	14.6%		$24,021
28		($331)	$1,270	$19,735	$25,921	$101,047		31.0%	14.1%	18.5%	21.7%	14.6%		$24,148
28		($317)	$1,180	$19,844	$25,927	$101,774		31.1%	14.1%	18.4%	21.8%	14.6%		$24,275
28		($302)	$1,090	$19,953	$25,933	$102,502		31.1%	14.0%	18.3%	22.0%	14.6%		$24,402
29		($288)	$1,001	$20,062	$25,939	$103,230		31.1%	14.0%	18.2%	22.1%	14.6%		$24,528
29		($273)	$911	$20,172	$25,945	$103,957		31.2%	14.0%	18.0%	22.2%	14.6%		$24,655
29		($259)	$821	$20,281	$25,951	$104,685		31.2%	13.9%	17.9%	22.3%	14.6%		$24,781
29		($244)	$731	$20,390	$25,957	$105,412		31.2%	13.9%	17.8%	22.4%	14.6%		$24,906
29		($230)	$641	$20,499	$25,963	$106,140		31.3%	13.9%	17.7%	22.6%	14.6%		$25,032
29		($215)	$551	$20,608	$25,969	$106,868		31.3%	13.8%	17.6%	22.7%	14.6%		$25,158
29		($201)	$461	$20,718	$25,975	$107,595		31.3%	13.8%	17.4%	22.8%	14.6%		$25,283
29		($186)	$371	$20,827	$25,981	$108,323		31.3%	13.8%	17.3%	22.9%	14.6%		$25,408
30		($172)	$281	$20,936	$25,987	$109,050		31.4%	13.8%	17.2%	23.0%	14.6%		$25,533
30		($157)	$191	$21,045	$25,993	$109,778		31.4%	13.7%	17.1%	23.2%	14.6%		$25,658
30		($143)	$101	$21,154	$25,999	$110,506		31.4%	13.7%	17.0%	23.3%	14.6%		$25,782
30		($128)	$11	$21,264	$26,005	$111,233		31.5%	13.7%	16.8%	23.4%	14.6%		$25,907
30		($114)	($79)	$21,373	$26,012	$111,961		31.5%	13.6%	16.7%	23.5%	14.6%		$26,031
30		($99)	($169)	$21,482	$26,018	$112,688		31.5%	13.6%	16.6%	23.7%	14.6%		$26,155
30		($85)	($259)	$21,591	$26,024	$113,416		31.6%	13.6%	16.5%	23.8%	14.6%		$26,279
30		($70)	($349)	$21,700	$26,030	$114,144		31.6%	13.5%	16.3%	23.9%	14.6%		$26,402
31		($56)	($439)	$21,810	$26,036	$114,871		31.6%	13.5%	16.2%	24.0%	14.6%		$26,526
31		($41)	($529)	$21,919	$26,042	$115,599		31.6%	13.5%	16.1%	24.1%	14.6%		$26,649
31		($27)	($619)	$22,028	$26,048	$116,326		31.7%	13.4%	16.0%	24.3%	14.6%		$26,772
31		($12)	($709)	$22,137	$26,054	$117,054		**31.7%**	**13.4%**	**15.9%**	**24.4%**	**14.6%**		**$26,895**
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895
31		($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%		$26,895

31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895
31			($12)	($709)	$22,137	$26,054	$117,054		31.7%	13.4%	15.9%	24.4%	14.6%			$26,895

Worksheet Name: Attachment (Don't PDF) -->

Year	PV Factor (2030)	WSIP Benefit Value Delta Export (with Conveyance) ($/AF)						
		Wet	Above Normal	Below Normal	Dry	Critical	Wet	Above Normal
2023	1.272	$226	$276	$286	$306	$381	0.0	0.0
2024	1.229	$226	$276	$286	$306	$381	0.0	0.0
2025	1.188	$226	$276	$286	$306	$381	0.0	0.0
2026	1.148	$226	$276	$286	$306	$381	0.0	0.0
2027	1.109	$226	$276	$286	$306	$381	0.0	0.0
2028	1.071	$226	$276	$286	$306	$381	0.0	0.0
2029	1.035	$226	$276	$286	$306	$381	0.0	0.0
2030	**1.000**	**$226**	**$276**	**$286**	**$306**	**$381**	**47.2**	**48.0**
2031	0.966	$240	$294	$311	$332	$427	47.1	47.8
2032	0.934	$254	$311	$335	$358	$474	47.1	47.6
2033	0.902	$268	$329	$360	$384	$520	47.0	47.5
2034	0.871	$282	$347	$385	$410	$566	46.9	47.3
2035	0.842	$296	$364	$409	$436	$613	46.9	47.1
2036	0.814	$310	$382	$434	$462	$659	46.8	46.9
2037	0.786	$324	$400	$459	$488	$705	46.8	46.7
2038	0.759	$338	$417	$483	$514	$752	46.7	46.5
2039	0.734	$352	$435	$508	$540	$798	46.7	46.4
2040	0.709	$366	$453	$533	$566	$844	46.6	46.2
2041	0.685	$380	$470	$557	$592	$891	46.6	46.0
2042	0.662	$394	$488	$582	$618	$937	46.5	45.8
2043	0.639	$408	$506	$607	$644	$983	46.5	45.6
2044	0.618	$422	$523	$631	$670	$1,030	46.4	45.4
2045	**0.597**	**$436**	**$541**	**$656**	**$696**	**$1,076**	**46.4**	**45.2**
2046	0.577	$436	$541	$656	$696	$1,076	46.3	45.1
2047	0.557	$436	$541	$656	$696	$1,076	46.2	44.9
2048	0.538	$436	$541	$656	$696	$1,076	46.2	44.7
2049	0.520	$436	$541	$656	$696	$1,076	46.1	44.5
2050	0.503	$436	$541	$656	$696	$1,076	46.1	44.3
2051	0.486	$436	$541	$656	$696	$1,076	46.0	44.1
2052	0.469	$436	$541	$656	$696	$1,076	46.0	44.0
2053	0.453	$436	$541	$656	$696	$1,076	45.9	43.8
2054	0.438	$436	$541	$656	$696	$1,076	45.9	43.6
2055	0.423	$436	$541	$656	$696	$1,076	45.8	43.4
2056	0.409	$436	$541	$656	$696	$1,076	45.8	43.2
2057	0.395	$436	$541	$656	$696	$1,076	45.7	43.0
2058	0.382	$436	$541	$656	$696	$1,076	45.6	42.8
2059	0.369	$436	$541	$656	$696	$1,076	45.6	42.7
2060	0.356	$436	$541	$656	$696	$1,076	45.5	42.5
2061	0.344	$436	$541	$656	$696	$1,076	45.5	42.3
2062	0.333	$436	$541	$656	$696	$1,076	45.4	42.1
2063	0.321	$436	$541	$656	$696	$1,076	45.4	41.9
2064	0.310	$436	$541	$656	$696	$1,076	45.3	41.7
2065	0.300	$436	$541	$656	$696	$1,076	45.3	41.5

2066	0.290	$436	$541	$656	$696	$1,076	45.2	41.4
2067	0.280	$436	$541	$656	$696	$1,076	45.2	41.2
2068	0.271	$436	$541	$656	$696	$1,076	45.1	41.0
2069	0.261	$436	$541	$656	$696	$1,076	45.1	40.8
2070	**0.253**	**$436**	**$541**	**$656**	**$696**	**$1,076**	**45.0**	**40.6**
2071	0.244	$436	$541	$656	$696	$1,076	45.0	40.6
2072	0.236	$436	$541	$656	$696	$1,076	45.0	40.6
2073	0.228	$436	$541	$656	$696	$1,076	45.0	40.6
2074	0.220	$436	$541	$656	$696	$1,076	45.0	40.6
2075	0.213	$436	$541	$656	$696	$1,076	45.0	40.6
2076	0.205	$436	$541	$656	$696	$1,076	45.0	40.6
2077	0.199	$436	$541	$656	$696	$1,076	45.0	40.6
2078	0.192	$436	$541	$656	$696	$1,076	45.0	40.6
2079	0.185	$436	$541	$656	$696	$1,076	45.0	40.6
2080	0.179	$436	$541	$656	$696	$1,076	45.0	40.6
2081	0.173	$436	$541	$656	$696	$1,076	45.0	40.6
2082	0.167	$436	$541	$656	$696	$1,076	45.0	40.6
2083	0.161	$436	$541	$656	$696	$1,076	45.0	40.6
2084	0.156	$436	$541	$656	$696	$1,076	45.0	40.6
2085	0.151	$436	$541	$656	$696	$1,076	45.0	40.6
2086	0.146	$436	$541	$656	$696	$1,076	45.0	40.6
2087	0.141	$436	$541	$656	$696	$1,076	45.0	40.6
2088	0.136	$436	$541	$656	$696	$1,076	45.0	40.6
2089	0.131	$436	$541	$656	$696	$1,076	45.0	40.6
2090	0.127	$436	$541	$656	$696	$1,076	45.0	40.6
2091	0.123	$436	$541	$656	$696	$1,076	45.0	40.6
2092	0.118	$436	$541	$656	$696	$1,076	45.0	40.6
2093	0.114	$436	$541	$656	$696	$1,076	45.0	40.6
2094	0.111	$436	$541	$656	$696	$1,076	45.0	40.6
2095	0.107	$436	$541	$656	$696	$1,076	45.0	40.6
2096	0.103	$436	$541	$656	$696	$1,076	45.0	40.6
2097	0.100	$436	$541	$656	$696	$1,076	45.0	40.6
2098	0.096	$436	$541	$656	$696	$1,076	45.0	40.6
2099	0.093	$436	$541	$656	$696	$1,076	45.0	40.6
2100	0.090	$436	$541	$656	$696	$1,076	45.0	40.6
2101	0.087	$436	$541	$656	$696	$1,076	45.0	40.6
2102	0.084	$436	$541	$656	$696	$1,076	45.0	40.6
2103	0.081	$436	$541	$656	$696	$1,076	45.0	40.6
2104	0.078	$436	$541	$656	$696	$1,076	45.0	40.6
2105	0.076	$436	$541	$656	$696	$1,076	45.0	40.6
2106	0.073	$436	$541	$656	$696	$1,076	45.0	40.6
2107	0.071	$436	$541	$656	$696	$1,076	45.0	40.6
2108	0.068	$436	$541	$656	$696	$1,076	45.0	40.6
2109	0.066	$436	$541	$656	$696	$1,076	45.0	40.6
2110	0.064	$436	$541	$656	$696	$1,076	45.0	40.6
2111	0.062	$436	$541	$656	$696	$1,076	45.0	40.6
2112	0.060	$436	$541	$656	$696	$1,076	45.0	40.6
2113	0.058	$436	$541	$656	$696	$1,076	45.0	40.6

2114	0.056	$436	$541	$656	$696	$1,076	45.0	40.6
2115	0.054	$436	$541	$656	$696	$1,076	45.0	40.6
2116	0.052	$436	$541	$656	$696	$1,076	45.0	40.6
2117	0.050	$436	$541	$656	$696	$1,076	45.0	40.6
2118	0.048	$436	$541	$656	$696	$1,076	45.0	40.6
2119	0.047	$436	$541	$656	$696	$1,076	45.0	40.6
2120	0.045	$436	$541	$656	$696	$1,076	45.0	40.6
2121	0.044	$436	$541	$656	$696	$1,076	45.0	40.6
2122	0.042	$436	$541	$656	$696	$1,076	45.0	40.6

Deliveries (TAF)				Water Year Type: Benefits (Frequency not taken into account) ($1,000s)				
Below Normal	Dry	Critical	Weighted Average	Wet	Above Normal	Below Normal	Dry	Critical
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
35.4	**25.1**	**6.5**	**34.6**	**($292)**	**$1,417**	**$7,416**	**$10,898**	**$30,011**
35.3	25.0	6.5	34.5	($305)	$1,468	$8,156	$11,895	$34,154
35.2	24.9	6.5	34.4	($316)	$1,513	$8,904	$12,893	$38,361
35.2	24.8	6.4	34.3	($326)	$1,552	$9,661	$13,891	$42,632
35.1	24.7	6.4	34.2	($336)	$1,584	$10,427	$14,889	$46,966
35.0	24.6	6.4	34.1	($344)	$1,611	$11,201	$15,888	$51,365
34.9	24.5	6.4	34.0	($352)	$1,631	$11,983	$16,887	$55,827
34.8	24.4	6.4	33.9	($358)	$1,646	$12,774	$17,887	$60,353
34.7	24.2	6.3	33.8	($364)	$1,654	$13,574	$18,887	$64,943
34.7	24.1	6.3	33.7	($368)	$1,656	$14,381	$19,888	$69,597
34.6	24.0	6.3	33.6	($372)	$1,652	$15,198	$20,889	$74,315
34.5	23.9	6.3	33.5	($374)	$1,642	$16,023	$21,891	$79,097
34.4	23.8	6.3	33.4	($376)	$1,626	$16,856	$22,893	$83,943
34.3	23.7	6.2	33.3	($376)	$1,603	$17,698	$23,896	$88,853
34.2	23.6	6.2	33.2	($376)	$1,575	$18,548	$24,899	$93,827
34.2	**23.5**	**6.2**	**33.1**	**($375)**	**$1,540**	**$19,407**	**$25,903**	**$98,864**
34.1	23.4	6.2	33.0	($360)	$1,450	$19,516	$25,909	$99,592
34.0	23.3	6.2	33.0	($346)	$1,360	$19,626	$25,915	$100,319
33.9	23.2	6.1	32.9	($331)	$1,270	$19,735	$25,921	$101,047
33.8	23.1	6.1	32.8	($317)	$1,180	$19,844	$25,927	$101,774
33.7	23.0	6.1	32.7	($302)	$1,090	$19,953	$25,933	$102,502
33.6	22.9	6.1	32.6	($288)	$1,001	$20,062	$25,939	$103,230
33.6	22.8	6.1	32.5	($273)	$911	$20,172	$25,945	$103,957
33.5	22.7	6.0	32.4	($259)	$821	$20,281	$25,951	$104,685
33.4	22.6	6.0	32.3	($244)	$731	$20,390	$25,957	$105,412
33.3	22.5	6.0	32.2	($230)	$641	$20,499	$25,963	$106,140
33.2	22.4	6.0	32.1	($215)	$551	$20,608	$25,969	$106,868
33.1	22.3	6.0	32.0	($201)	$461	$20,718	$25,975	$107,595
33.1	22.2	5.9	31.9	($186)	$371	$20,827	$25,981	$108,323
33.0	22.1	5.9	31.8	($172)	$281	$20,936	$25,987	$109,050
32.9	22.0	5.9	31.7	($157)	$191	$21,045	$25,993	$109,778
32.8	21.9	5.9	31.6	($143)	$101	$21,154	$25,999	$110,506
32.7	21.8	5.9	31.5	($128)	$11	$21,264	$26,005	$111,233
32.6	21.7	5.8	31.4	($114)	($79)	$21,373	$26,012	$111,961
32.5	21.6	5.8	31.3	($99)	($169)	$21,482	$26,018	$112,688
32.5	21.5	5.8	31.2	($85)	($259)	$21,591	$26,024	$113,416

32.4	21.4	5.8	31.1	($70)	($349)	$21,700	$26,030	$114,144
32.3	21.3	5.8	31.0	($56)	($439)	$21,810	$26,036	$114,871
32.2	21.2	5.7	30.9	($41)	($529)	$21,919	$26,042	$115,599
32.1	21.1	5.7	30.8	($27)	($619)	$22,028	$26,048	$116,326
32.0	**21.0**	**5.7**	**30.7**	**($12)**	**($709)**	**$22,137**	**$26,054**	**$117,054**
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054

32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054
32.0	21.0	5.7	30.7	($12)	($709)	$22,137	$26,054	$117,054

Water Type Frequency: Sacramento Valley					Total Benefits Expected ($1,000s)	Total Benefits Expected Present Value ($1,000s)
Wet	Above Normal	Below Normal	Dry	Critical		
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	**14.6%**	**20.7%**	**19.5%**	**14.6%**	**$8,174**	**$8,174**
30.5%	14.6%	20.6%	19.6%	14.6%	$9,136	$8,827
30.5%	14.6%	20.5%	19.8%	14.6%	$10,109	$9,437
30.6%	14.5%	20.4%	19.9%	14.6%	$11,093	$10,006
30.6%	14.5%	20.2%	20.0%	14.6%	$12,089	$10,535
30.6%	14.5%	20.1%	20.1%	14.6%	$13,095	$11,026
30.7%	14.5%	20.0%	20.2%	14.6%	$14,113	$11,481
30.7%	14.4%	19.9%	20.4%	14.6%	$15,142	$11,901
30.7%	14.4%	19.8%	20.5%	14.6%	$16,181	$12,288
30.8%	14.4%	19.6%	20.6%	14.6%	$17,232	$12,644
30.8%	14.3%	19.5%	20.7%	14.6%	$18,294	$12,969
30.8%	14.3%	19.4%	20.9%	14.6%	$19,367	$13,265
30.9%	14.3%	19.3%	21.0%	14.6%	$20,450	$13,534
30.9%	14.2%	19.1%	21.1%	14.6%	$21,545	$13,776
30.9%	14.2%	19.0%	21.2%	14.6%	$22,650	$13,993
30.9%	**14.2%**	**18.9%**	**21.3%**	**14.6%**	**$23,767**	**$14,186**
31.0%	14.1%	18.8%	21.5%	14.6%	$23,894	$13,780
31.0%	14.1%	18.7%	21.6%	14.6%	$24,021	$13,385
31.0%	14.1%	18.5%	21.7%	14.6%	$24,148	$13,001
31.1%	14.1%	18.4%	21.8%	14.6%	$24,275	$12,627
31.1%	14.0%	18.3%	22.0%	14.6%	$24,402	$12,264
31.1%	14.0%	18.2%	22.1%	14.6%	$24,528	$11,910
31.2%	14.0%	18.0%	22.2%	14.6%	$24,655	$11,567
31.2%	13.9%	17.9%	22.3%	14.6%	$24,781	$11,233
31.2%	13.9%	17.8%	22.4%	14.6%	$24,906	$10,908
31.3%	13.9%	17.7%	22.6%	14.6%	$25,032	$10,592
31.3%	13.8%	17.6%	22.7%	14.6%	$25,158	$10,285
31.3%	13.8%	17.4%	22.8%	14.6%	$25,283	$9,987
31.3%	13.8%	17.3%	22.9%	14.6%	$25,408	$9,697
31.4%	13.8%	17.2%	23.0%	14.6%	$25,533	$9,415
31.4%	13.7%	17.1%	23.2%	14.6%	$25,658	$9,141
31.4%	13.7%	17.0%	23.3%	14.6%	$25,782	$8,875
31.5%	13.7%	16.8%	23.4%	14.6%	$25,907	$8,616
31.5%	13.6%	16.7%	23.5%	14.6%	$26,031	$8,365
31.5%	13.6%	16.6%	23.7%	14.6%	$26,155	$8,121
31.6%	13.6%	16.5%	23.8%	14.6%	$26,279	$7,883

31.6%	13.5%	16.3%	23.9%	14.6%	$26,402	$7,652
31.6%	13.5%	16.2%	24.0%	14.6%	$26,526	$7,428
31.6%	13.5%	16.1%	24.1%	14.6%	$26,649	$7,210
31.7%	13.4%	16.0%	24.3%	14.6%	$26,772	$6,999
31.7%	**13.4%**	**15.9%**	**24.4%**	**14.6%**	**$26,895**	**$6,793**
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$6,563
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$6,341
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$6,127
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$5,920
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$5,719
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$5,526
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$5,339
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$5,159
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,984
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,816
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,653
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,495
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,343
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,197
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,055
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,918
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,785
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,657
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,533
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,414
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,298
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,187
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,079
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,975
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,874
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,777
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,683
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,593
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,505
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,420
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,338
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,259
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,183
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,109
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,038
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,969
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,902
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,838
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,776
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,716
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,658
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,602
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,547

31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,495
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,445
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,396
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,349
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,303
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,259
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,216
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,175
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,135

Year	PV Factor (2030)	WSIP Benefit Value Sacramento Valley (without Conveyance) ($/AF)						
		Wet	Above Normal	Below Normal	Dry	Critical	Wet	Above Normal
2023	1.272	$145	$190	$255	$275	$345	0.0	0.0
2024	1.229	$145	$190	$255	$275	$345	0.0	0.0
2025	1.188	$145	$190	$255	$275	$345	0.0	0.0
2026	1.148	$145	$190	$255	$275	$345	0.0	0.0
2027	1.109	$145	$190	$255	$275	$345	0.0	0.0
2028	1.071	$145	$190	$255	$275	$345	0.0	0.0
2029	1.035	$145	$190	$255	$275	$345	0.0	0.0
2030	**1.000**	**$145**	**$190**	**$255**	**$275**	**$345**	**0.8**	**0.9**
2031	0.966	$145	$191	$256	$276	$346	0.8	0.9
2032	0.934	$146	$191	$256	$276	$346	0.8	0.9
2033	0.902	$146	$192	$257	$277	$347	0.8	0.9
2034	0.871	$146	$193	$258	$278	$348	0.8	0.9
2035	0.842	$147	$193	$258	$278	$348	0.8	0.9
2036	0.814	$147	$194	$259	$279	$349	0.8	0.9
2037	0.786	$147	$195	$260	$280	$350	0.8	0.9
2038	0.759	$148	$195	$260	$280	$350	0.8	0.9
2039	0.734	$148	$196	$261	$281	$351	0.8	0.9
2040	0.709	$148	$197	$262	$282	$352	0.8	0.9
2041	0.685	$149	$197	$262	$282	$352	0.8	0.9
2042	0.662	$149	$198	$263	$283	$353	0.8	0.9
2043	0.639	$149	$199	$264	$284	$354	0.8	0.9
2044	0.618	$150	$199	$264	$284	$354	0.8	0.9
2045	**0.597**	**$150**	**$200**	**$265**	**$285**	**$355**	**0.8**	**0.9**
2046	0.577	$150	$200	$265	$285	$355	0.8	0.9
2047	0.557	$150	$200	$265	$285	$355	0.8	0.9
2048	0.538	$150	$200	$265	$285	$355	0.8	0.9
2049	0.520	$150	$200	$265	$285	$355	0.8	0.9
2050	0.503	$150	$200	$265	$285	$355	0.8	0.9
2051	0.486	$150	$200	$265	$285	$355	0.8	0.8
2052	0.469	$150	$200	$265	$285	$355	0.8	0.8
2053	0.453	$150	$200	$265	$285	$355	0.8	0.8
2054	0.438	$150	$200	$265	$285	$355	0.8	0.8
2055	0.423	$150	$200	$265	$285	$355	0.8	0.8
2056	0.409	$150	$200	$265	$285	$355	0.8	0.8
2057	0.395	$150	$200	$265	$285	$355	0.8	0.8
2058	0.382	$150	$200	$265	$285	$355	0.8	0.8
2059	0.369	$150	$200	$265	$285	$355	0.8	0.8
2060	0.356	$150	$200	$265	$285	$355	0.8	0.8
2061	0.344	$150	$200	$265	$285	$355	0.8	0.8
2062	0.333	$150	$200	$265	$285	$355	0.8	0.8
2063	0.321	$150	$200	$265	$285	$355	0.8	0.8
2064	0.310	$150	$200	$265	$285	$355	0.8	0.8
2065	0.300	$150	$200	$265	$285	$355	0.8	0.8

2066	0.290	$150	$200	$265	$285	$355	0.8	0.8
2067	0.280	$150	$200	$265	$285	$355	0.8	0.8
2068	0.271	$150	$200	$265	$285	$355	0.8	0.8
2069	0.261	$150	$200	$265	$285	$355	0.8	0.8
2070	0.253	$150	$200	$265	$285	$355	0.8	0.8
2071	**0.244**	**$150**	**$200**	**$265**	**$285**	**$355**	**0.8**	**0.8**
2072	0.236	$150	$200	$265	$285	$355	0.8	0.8
2073	0.228	$150	$200	$265	$285	$355	0.8	0.8
2074	0.220	$150	$200	$265	$285	$355	0.8	0.8
2075	0.213	$150	$200	$265	$285	$355	0.8	0.8
2076	0.205	$150	$200	$265	$285	$355	0.8	0.8
2077	0.199	$150	$200	$265	$285	$355	0.8	0.8
2078	0.192	$150	$200	$265	$285	$355	0.8	0.8
2079	0.185	$150	$200	$265	$285	$355	0.8	0.8
2080	0.179	$150	$200	$265	$285	$355	0.8	0.8
2081	0.173	$150	$200	$265	$285	$355	0.8	0.8
2082	0.167	$150	$200	$265	$285	$355	0.8	0.8
2083	0.161	$150	$200	$265	$285	$355	0.8	0.8
2084	0.156	$150	$200	$265	$285	$355	0.8	0.8
2085	0.151	$150	$200	$265	$285	$355	0.8	0.8
2086	0.146	$150	$200	$265	$285	$355	0.8	0.8
2087	0.141	$150	$200	$265	$285	$355	0.8	0.8
2088	0.136	$150	$200	$265	$285	$355	0.8	0.8
2089	0.131	$150	$200	$265	$285	$355	0.8	0.8
2090	0.127	$150	$200	$265	$285	$355	0.8	0.8
2091	0.123	$150	$200	$265	$285	$355	0.8	0.8
2092	0.118	$150	$200	$265	$285	$355	0.8	0.8
2093	0.114	$150	$200	$265	$285	$355	0.8	0.8
2094	0.111	$150	$200	$265	$285	$355	0.8	0.8
2095	0.107	$150	$200	$265	$285	$355	0.8	0.8
2096	0.103	$150	$200	$265	$285	$355	0.8	0.8
2097	0.100	$150	$200	$265	$285	$355	0.8	0.8
2098	0.096	$150	$200	$265	$285	$355	0.8	0.8
2099	0.093	$150	$200	$265	$285	$355	0.8	0.8
2100	0.090	$150	$200	$265	$285	$355	0.8	0.8
2101	0.087	$150	$200	$265	$285	$355	0.8	0.8
2102	0.084	$150	$200	$265	$285	$355	0.8	0.8
2103	0.081	$150	$200	$265	$285	$355	0.8	0.8
2104	0.078	$150	$200	$265	$285	$355	0.8	0.8
2105	0.076	$150	$200	$265	$285	$355	0.8	0.8
2106	0.073	$150	$200	$265	$285	$355	0.8	0.8
2107	0.071	$150	$200	$265	$285	$355	0.8	0.8
2108	0.068	$150	$200	$265	$285	$355	0.8	0.8
2109	0.066	$150	$200	$265	$285	$355	0.8	0.8
2110	0.064	$150	$200	$265	$285	$355	0.8	0.8
2111	0.062	$150	$200	$265	$285	$355	0.8	0.8
2112	0.060	$150	$200	$265	$285	$355	0.8	0.8
2113	0.058	$150	$200	$265	$285	$355	0.8	0.8

2114	0.056	$150	$200	$265	$285	$355	0.8	0.8
2115	0.054	$150	$200	$265	$285	$355	0.8	0.8
2116	0.052	$150	$200	$265	$285	$355	0.8	0.8
2117	0.050	$150	$200	$265	$285	$355	0.8	0.8
2118	0.048	$150	$200	$265	$285	$355	0.8	0.8
2119	0.047	$150	$200	$265	$285	$355	0.8	0.8
2120	0.045	$150	$200	$265	$285	$355	0.8	0.8
2121	0.044	$150	$200	$265	$285	$355	0.8	0.8
2122	0.042	$150	$200	$265	$285	$355	0.8	0.8

Deliveries (TAF)				Water Year Type: Benefits (Frequency not taken into account) ($1,000s)				
Below Normal	Dry	Critical	Weighted Average	Wet	Above Normal	Below Normal	Dry	Critical
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.7	**0.5**	**0.1**	**0.6**	**$121**	**$179**	**$179**	**$125**	**$37**
0.7	0.4	0.1	0.6	$121	$179	$179	$124	$37
0.7	0.4	0.1	0.6	$122	$179	$179	$123	$37
0.7	0.4	0.1	0.6	$122	$179	$179	$122	$36
0.7	0.4	0.1	0.6	$122	$178	$179	$122	$36
0.7	0.4	0.1	0.6	$122	$178	$179	$121	$36
0.7	0.4	0.1	0.6	$123	$178	$179	$120	$35
0.7	0.4	0.1	0.6	$123	$177	$180	$119	$35
0.7	0.4	0.1	0.6	$123	$177	$180	$118	$35
0.7	0.4	0.1	0.6	$123	$177	$180	$117	$34
0.7	0.4	0.1	0.6	$124	$177	$180	$117	$34
0.7	0.4	0.1	0.6	$124	$176	$180	$116	$34
0.7	0.4	0.1	0.6	$124	$176	$180	$115	$33
0.7	0.4	0.1	0.6	$124	$176	$180	$114	$33
0.7	0.4	0.1	0.6	$125	$175	$180	$113	$33
0.7	**0.4**	**0.1**	**0.6**	**$125**	**$175**	**$180**	**$112**	**$32**
0.7	0.4	0.1	0.6	$125	$174	$180	$111	$32
0.7	0.4	0.1	0.6	$125	$173	$180	$110	$31
0.7	0.4	0.1	0.6	$125	$172	$179	$109	$31
0.7	0.4	0.1	0.6	$125	$171	$179	$108	$31
0.7	0.4	0.1	0.6	$125	$170	$178	$107	$30
0.7	0.4	0.1	0.6	$125	$169	$178	$105	$30
0.7	0.4	0.1	0.6	$125	$168	$178	$104	$29
0.7	0.4	0.1	0.6	$125	$167	$177	$103	$29
0.7	0.4	0.1	0.6	$125	$166	$177	$102	$28
0.7	0.4	0.1	0.6	$125	$165	$177	$101	$28
0.7	0.4	0.1	0.6	$125	$165	$176	$100	$28
0.7	0.3	0.1	0.6	$125	$164	$176	$99	$27
0.7	0.3	0.1	0.6	$125	$163	$176	$98	$27
0.7	0.3	0.1	0.6	$125	$162	$175	$96	$26
0.7	0.3	0.1	0.6	$125	$161	$175	$95	$26
0.7	0.3	0.1	0.6	$125	$160	$174	$94	$25
0.7	0.3	0.1	0.6	$124	$159	$174	$93	$25
0.7	0.3	0.1	0.6	$124	$158	$174	$92	$25
0.7	0.3	0.1	0.6	$124	$157	$173	$91	$24
0.7	0.3	0.1	0.6	$124	$156	$173	$90	$24

0.7	0.3	0.1	0.6	$124	$155	$173	$88	$23
0.7	0.3	0.1	0.6	$124	$154	$172	$87	$23
0.6	0.3	0.1	0.6	$124	$153	$172	$86	$23
0.6	0.3	0.1	0.5	$124	$152	$172	$85	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	**0.3**	**0.1**	**0.5**	**$124**	**$151**	**$171**	**$84**	**$22**
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$23
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22

0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22
0.6	0.3	0.1	0.5	$124	$151	$171	$84	$22

Water Type Frequency: Sacramento Valley					Total Benefits Expected ($1,000s)	Total Benefits Expected Present Value ($1,000s)
Wet	Above Normal	Below Normal	Dry	Critical		
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	**14.6%**	**20.7%**	**19.5%**	**14.6%**	**$130**	**$130**
30.5%	14.6%	20.6%	19.6%	14.6%	$130	$125
30.5%	14.6%	20.5%	19.8%	14.6%	$130	$121
30.6%	14.5%	20.4%	19.9%	14.6%	$129	$117
30.6%	14.5%	20.2%	20.0%	14.6%	$129	$113
30.6%	14.5%	20.1%	20.1%	14.6%	$129	$109
30.7%	14.5%	20.0%	20.2%	14.6%	$129	$105
30.7%	14.4%	19.9%	20.4%	14.6%	$128	$101
30.7%	14.4%	19.8%	20.5%	14.6%	$128	$97
30.8%	14.4%	19.6%	20.6%	14.6%	$128	$94
30.8%	14.3%	19.5%	20.7%	14.6%	$128	$90
30.8%	14.3%	19.4%	20.9%	14.6%	$127	$87
30.9%	14.3%	19.3%	21.0%	14.6%	$127	$84
30.9%	14.2%	19.1%	21.1%	14.6%	$127	$81
30.9%	14.2%	19.0%	21.2%	14.6%	$126	$78
30.9%	**14.2%**	**18.9%**	**21.3%**	**14.6%**	**$126**	**$75**
31.0%	14.1%	18.8%	21.5%	14.6%	$126	$72
31.0%	14.1%	18.7%	21.6%	14.6%	$125	$70
31.0%	14.1%	18.5%	21.7%	14.6%	$124	$67
31.1%	14.1%	18.4%	21.8%	14.6%	$124	$64
31.1%	14.0%	18.3%	22.0%	14.6%	$123	$62
31.1%	14.0%	18.2%	22.1%	14.6%	$123	$59
31.2%	14.0%	18.0%	22.2%	14.6%	$122	$57
31.2%	13.9%	17.9%	22.3%	14.6%	$121	$55
31.2%	13.9%	17.8%	22.4%	14.6%	$121	$53
31.3%	13.9%	17.7%	22.6%	14.6%	$120	$51
31.3%	13.8%	17.6%	22.7%	14.6%	$119	$49
31.3%	13.8%	17.4%	22.8%	14.6%	$119	$47
31.3%	13.8%	17.3%	22.9%	14.6%	$118	$45
31.4%	13.8%	17.2%	23.0%	14.6%	$118	$43
31.4%	13.7%	17.1%	23.2%	14.6%	$117	$42
31.4%	13.7%	17.0%	23.3%	14.6%	$116	$40
31.5%	13.7%	16.8%	23.4%	14.6%	$116	$38
31.5%	13.6%	16.7%	23.5%	14.6%	$115	$37
31.5%	13.6%	16.6%	23.7%	14.6%	$114	$35
31.6%	13.6%	16.5%	23.8%	14.6%	$114	$34

31.6%	13.5%	16.3%	23.9%	14.6%	$113	$33
31.6%	13.5%	16.2%	24.0%	14.6%	$112	$31
31.6%	13.5%	16.1%	24.1%	14.6%	$112	$30
31.7%	13.4%	16.0%	24.3%	14.6%	$111	$29
31.7%	13.4%	15.9%	24.4%	14.6%	$110	**$28**
31.7%	**13.4%**	**15.9%**	**24.4%**	**14.6%**	**$110**	$27
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$26
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$25
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$24
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$23
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$23
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$22
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$21
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$20
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$20
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$19
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$18
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$18
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$17
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$17
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$16
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$16
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$15
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$15
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$14
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$14
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$13
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$13
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$12
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$12
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$11
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$11
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$11
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$10
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$10
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$10
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$9
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$9
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$9
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$8
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$8
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$8
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$8
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$7
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$7
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$7
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$7
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$6

31.7%	13.4%	15.9%	24.4%	14.6%	$110	$6
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$6
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$6
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$6
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$5
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$5
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$5
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$5
31.7%	13.4%	15.9%	24.4%	14.6%	$110	$5

Year	PV Factor (2030)	Deliveries (TAF)						Water Yea
		Wet	Above Normal	Below Normal	Dry	Critical	Weighted Average	Wet
2023	1.272	0.0	0.0	0.0	0.0	0.0	0.0	$0
2024	1.229	0.0	0.0	0.0	0.0	0.0	0.0	$0
2025	1.188	0.0	0.0	0.0	0.0	0.0	0.0	$0
2026	1.148	0.0	0.0	0.0	0.0	0.0	0.0	$0
2027	1.109	0.0	0.0	0.0	0.0	0.0	0.0	$0
2028	1.071	0.0	0.0	0.0	0.0	0.0	0.0	$0
2029	1.035	0.0	0.0	0.0	0.0	0.0	0.0	$0
2030	**1.000**	**48.0**	**49.0**	**36.1**	**25.5**	**6.6**	**35.2**	**($171)**
2031	0.966	47.9	48.8	36.0	25.4	6.6	35.1	($183)
2032	0.934	47.9	48.6	35.9	25.3	6.6	35.0	($194)
2033	0.902	47.8	48.4	35.9	25.2	6.6	34.9	($205)
2034	0.871	47.8	48.2	35.8	25.1	6.5	34.8	($214)
2035	0.842	47.7	48.0	35.7	25.0	6.5	34.7	($222)
2036	0.814	47.7	47.8	35.6	24.9	6.5	34.6	($229)
2037	0.786	47.6	47.6	35.5	24.8	6.5	34.5	($235)
2038	0.759	47.6	47.4	35.4	24.7	6.4	34.4	($240)
2039	0.734	47.5	47.3	35.3	24.6	6.4	34.3	($245)
2040	0.709	47.5	47.1	35.3	24.5	6.4	34.2	($248)
2041	0.685	47.4	46.9	35.2	24.4	6.4	34.1	($250)
2042	0.662	47.3	46.7	35.1	24.2	6.4	34.0	($252)
2043	0.639	47.3	46.5	35.0	24.1	6.3	33.9	($252)
2044	0.618	47.2	46.3	34.9	24.0	6.3	33.8	($251)
2045	**0.597**	**47.2**	**46.1**	**34.8**	**23.9**	**6.3**	**33.8**	**($250)**
2046	0.577	47.1	45.9	34.7	23.8	6.3	33.7	($235)
2047	0.557	47.1	45.7	34.7	23.7	6.2	33.6	($221)
2048	0.538	47.0	45.6	34.6	23.6	6.2	33.5	($206)
2049	0.520	47.0	45.4	34.5	23.5	6.2	33.4	($192)
2050	0.503	46.9	45.2	34.4	23.4	6.2	33.3	($177)
2051	0.486	46.9	45.0	34.3	23.3	6.2	33.2	($163)
2052	0.469	46.8	44.8	34.2	23.2	6.1	33.1	($148)
2053	0.453	46.7	44.6	34.1	23.1	6.1	33.0	($134)
2054	0.438	46.7	44.4	34.1	23.0	6.1	32.9	($119)
2055	0.423	46.6	44.2	34.0	22.9	6.1	32.8	($105)
2056	0.409	46.6	44.0	33.9	22.8	6.1	32.7	($90)
2057	0.395	46.5	43.8	33.8	22.7	6.0	32.6	($76)
2058	0.382	46.5	43.7	33.7	22.5	6.0	32.5	($62)
2059	0.369	46.4	43.5	33.6	22.4	6.0	32.4	($47)
2060	0.356	46.4	43.3	33.5	22.3	6.0	32.3	($33)
2061	0.344	46.3	43.1	33.5	22.2	5.9	32.2	($18)
2062	0.333	46.3	42.9	33.4	22.1	5.9	32.1	($4)
2063	0.321	46.2	42.7	33.3	22.0	5.9	32.0	$11
2064	0.310	46.2	42.5	33.2	21.9	5.9	31.9	$25
2065	0.300	46.1	42.3	33.1	21.8	5.9	31.8	$40

2066	0.290	46.0	42.1	33.0	21.7	5.8	31.7	$54
2067	0.280	46.0	42.0	32.9	21.6	5.8	31.6	$69
2068	0.271	45.9	41.8	32.9	21.5	5.8	31.5	$83
2069	0.261	45.9	41.6	32.8	21.4	5.8	31.4	$98
2070	**0.253**	**45.8**	**41.4**	**32.7**	**21.3**	**5.8**	**31.3**	**$112**
2071	0.244	45.8	41.4	32.7	21.3	5.8	31.3	$112
2072	0.236	45.8	41.4	32.7	21.3	5.8	31.3	$112
2073	0.228	45.8	41.4	32.7	21.3	5.8	31.3	$112
2074	0.220	45.8	41.4	32.7	21.3	5.8	31.3	$112
2075	0.213	45.8	41.4	32.7	21.3	5.8	31.3	$112
2076	0.205	45.8	41.4	32.7	21.3	5.8	31.3	$112
2077	0.199	45.8	41.4	32.7	21.3	5.8	31.3	$112
2078	0.192	45.8	41.4	32.7	21.3	5.8	31.3	$112
2079	0.185	45.8	41.4	32.7	21.3	5.8	31.3	$112
2080	0.179	45.8	41.4	32.7	21.3	5.8	31.3	$112
2081	0.173	45.8	41.4	32.7	21.3	5.8	31.3	$112
2082	0.167	45.8	41.4	32.7	21.3	5.8	31.3	$112
2083	0.161	45.8	41.4	32.7	21.3	5.8	31.3	$112
2084	0.156	45.8	41.4	32.7	21.3	5.8	31.3	$112
2085	0.151	45.8	41.4	32.7	21.3	5.8	31.3	$112
2086	0.146	45.8	41.4	32.7	21.3	5.8	31.3	$112
2087	0.141	45.8	41.4	32.7	21.3	5.8	31.3	$112
2088	0.136	45.8	41.4	32.7	21.3	5.8	31.3	$112
2089	0.131	45.8	41.4	32.7	21.3	5.8	31.3	$112
2090	0.127	45.8	41.4	32.7	21.3	5.8	31.3	$112
2091	0.123	45.8	41.4	32.7	21.3	5.8	31.3	$112
2092	0.118	45.8	41.4	32.7	21.3	5.8	31.3	$112
2093	0.114	45.8	41.4	32.7	21.3	5.8	31.3	$112
2094	0.111	45.8	41.4	32.7	21.3	5.8	31.3	$112
2095	0.107	45.8	41.4	32.7	21.3	5.8	31.3	$112
2096	0.103	45.8	41.4	32.7	21.3	5.8	31.3	$112
2097	0.100	45.8	41.4	32.7	21.3	5.8	31.3	$112
2098	0.096	45.8	41.4	32.7	21.3	5.8	31.3	$112
2099	0.093	45.8	41.4	32.7	21.3	5.8	31.3	$112
2100	0.090	45.8	41.4	32.7	21.3	5.8	31.3	$112
2101	0.087	45.8	41.4	32.7	21.3	5.8	31.3	$112
2102	0.084	45.8	41.4	32.7	21.3	5.8	31.3	$112
2103	0.081	45.8	41.4	32.7	21.3	5.8	31.3	$112
2104	0.078	45.8	41.4	32.7	21.3	5.8	31.3	$112
2105	0.076	45.8	41.4	32.7	21.3	5.8	31.3	$112
2106	0.073	45.8	41.4	32.7	21.3	5.8	31.3	$112
2107	0.071	45.8	41.4	32.7	21.3	5.8	31.3	$112
2108	0.068	45.8	41.4	32.7	21.3	5.8	31.3	$112
2109	0.066	45.8	41.4	32.7	21.3	5.8	31.3	$112
2110	0.064	45.8	41.4	32.7	21.3	5.8	31.3	$112
2111	0.062	45.8	41.4	32.7	21.3	5.8	31.3	$112
2112	0.060	45.8	41.4	32.7	21.3	5.8	31.3	$112
2113	0.058	45.8	41.4	32.7	21.3	5.8	31.3	$112

2114	0.056	45.8	41.4	32.7	21.3	5.8	31.3	$112
2115	0.054	45.8	41.4	32.7	21.3	5.8	31.3	$112
2116	0.052	45.8	41.4	32.7	21.3	5.8	31.3	$112
2117	0.050	45.8	41.4	32.7	21.3	5.8	31.3	$112
2118	0.048	45.8	41.4	32.7	21.3	5.8	31.3	$112
2119	0.047	45.8	41.4	32.7	21.3	5.8	31.3	$112
2120	0.045	45.8	41.4	32.7	21.3	5.8	31.3	$112
2121	0.044	45.8	41.4	32.7	21.3	5.8	31.3	$112
2122	0.042	45.8	41.4	32.7	21.3	5.8	31.3	$112

Above Normal	Below Normal	Dry	Critical	Wet	Above Normal	Below Normal	Dry	Critical
$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%
$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%
$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%
$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%
$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%
$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%
$0	$0	$0	$0	30.5%	14.6%	20.7%	19.5%	14.6%
$1,596	**$7,594**	**$11,023**	**$30,049**	**30.5%**	**14.6%**	**20.7%**	**19.5%**	**14.6%**
$1,647	$8,334	$12,019	$34,191	30.5%	14.6%	20.6%	19.6%	14.6%
$1,692	$9,083	$13,016	$38,398	30.5%	14.6%	20.5%	19.8%	14.6%
$1,730	$9,840	$14,013	$42,668	30.6%	14.5%	20.4%	19.9%	14.6%
$1,763	$10,606	$15,011	$47,002	30.6%	14.5%	20.2%	20.0%	14.6%
$1,789	$11,380	$16,009	$51,400	30.6%	14.5%	20.1%	20.1%	14.6%
$1,809	$12,163	$17,007	$55,862	30.7%	14.5%	20.0%	20.2%	14.6%
$1,823	$12,954	$18,006	$60,388	30.7%	14.4%	19.9%	20.4%	14.6%
$1,831	$13,753	$19,006	$64,978	30.7%	14.4%	19.8%	20.5%	14.6%
$1,833	$14,561	$20,006	$69,632	30.8%	14.4%	19.6%	20.6%	14.6%
$1,828	$15,378	$21,006	$74,349	30.8%	14.3%	19.5%	20.7%	14.6%
$1,818	$16,203	$22,007	$79,131	30.8%	14.3%	19.4%	20.9%	14.6%
$1,801	$17,036	$23,008	$83,976	30.9%	14.3%	19.3%	21.0%	14.6%
$1,779	$17,878	$24,010	$88,886	30.9%	14.2%	19.1%	21.1%	14.6%
$1,750	$18,729	$25,012	$93,859	30.9%	14.2%	19.0%	21.2%	14.6%
$1,715	**$19,588**	**$26,015**	**$98,896**	**30.9%**	**14.2%**	**18.9%**	**21.3%**	**14.6%**
$1,624	$19,696	$26,020	$99,623	31.0%	14.1%	18.8%	21.5%	14.6%
$1,533	$19,805	$26,025	$100,351	31.0%	14.1%	18.7%	21.6%	14.6%
$1,442	$19,914	$26,030	$101,078	31.0%	14.1%	18.5%	21.7%	14.6%
$1,351	$20,023	$26,035	$101,805	31.1%	14.1%	18.4%	21.8%	14.6%
$1,261	$20,132	$26,039	$102,532	31.1%	14.0%	18.3%	22.0%	14.6%
$1,170	$20,241	$26,044	$103,259	31.1%	14.0%	18.2%	22.1%	14.6%
$1,079	$20,349	$26,049	$103,986	31.2%	14.0%	18.0%	22.2%	14.6%
$988	$20,458	$26,054	$104,714	31.2%	13.9%	17.9%	22.3%	14.6%
$897	$20,567	$26,059	$105,441	31.2%	13.9%	17.8%	22.4%	14.6%
$806	$20,676	$26,064	$106,168	31.3%	13.9%	17.7%	22.6%	14.6%
$715	$20,785	$26,069	$106,895	31.3%	13.8%	17.6%	22.7%	14.6%
$624	$20,893	$26,074	$107,622	31.3%	13.8%	17.4%	22.8%	14.6%
$533	$21,002	$26,079	$108,349	31.3%	13.8%	17.3%	22.9%	14.6%
$443	$21,111	$26,084	$109,077	31.4%	13.8%	17.2%	23.0%	14.6%
$352	$21,220	$26,089	$109,804	31.4%	13.7%	17.1%	23.2%	14.6%
$261	$21,329	$26,094	$110,531	31.4%	13.7%	17.0%	23.3%	14.6%
$170	$21,438	$26,098	$111,258	31.5%	13.7%	16.8%	23.4%	14.6%
$79	$21,546	$26,103	$111,985	31.5%	13.6%	16.7%	23.5%	14.6%
($12)	$21,655	$26,108	$112,713	31.5%	13.6%	16.6%	23.7%	14.6%
($103)	$21,764	$26,113	$113,440	31.6%	13.6%	16.5%	23.8%	14.6%

($194)	$21,873	$26,118	$114,167	31.6%	13.5%	16.3%	23.9%	14.6%
($285)	$21,982	$26,123	$114,894	31.6%	13.5%	16.2%	24.0%	14.6%
($375)	$22,091	$26,128	$115,621	31.6%	13.5%	16.1%	24.1%	14.6%
($466)	$22,199	$26,133	$116,348	31.7%	13.4%	16.0%	24.3%	14.6%
($557)	**$22,308**	**$26,138**	**$117,076**	**31.7%**	**13.4%**	**15.9%**	**24.4%**	**14.6%**
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%

($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%
($557)	$22,308	$26,138	$117,076	31.7%	13.4%	15.9%	24.4%	14.6%

Total Benefits Expected ($1,000s)	Total Benefits Expected Present Value ($1,000s)
$0	$0
$0	$0
$0	$0
$0	$0
$0	$0
$0	$0
$0	$0
$8,304	**$8,304**
$9,266	$8,952
$10,239	$9,558
$11,223	$10,122
$12,218	$10,647
$13,224	$11,134
$14,242	$11,586
$15,270	$12,002
$16,310	$12,386
$17,360	$12,738
$18,422	$13,059
$19,494	$13,352
$20,577	$13,618
$21,672	$13,857
$22,777	$14,071
$23,893	**$14,261**
$24,020	$13,852
$24,146	$13,454
$24,273	$13,067
$24,399	$12,691
$24,525	$12,325
$24,651	$11,970
$24,776	$11,624
$24,902	$11,288
$25,027	$10,961
$25,152	$10,643
$25,277	$10,334
$25,402	$10,034
$25,526	$9,742
$25,651	$9,459
$25,775	$9,183
$25,899	$8,915
$26,022	$8,655
$26,146	$8,402
$26,269	$8,156
$26,393	$7,917

$26,516	$7,685
$26,638	$7,460
$26,761	$7,240
$26,883	$7,028
$27,006	**$6,821**
$27,006	$6,590
$27,006	$6,367
$27,006	$6,152
$27,006	$5,944
$27,006	$5,743
$27,006	$5,549
$27,006	$5,361
$27,006	$5,180
$27,006	$5,005
$27,006	$4,835
$27,006	$4,672
$27,006	$4,514
$27,006	$4,361
$27,006	$4,214
$27,006	$4,071
$27,006	$3,934
$27,006	$3,801
$27,006	$3,672
$27,006	$3,548
$27,006	$3,428
$27,006	$3,312
$27,006	$3,200
$27,006	$3,092
$27,006	$2,987
$27,006	$2,886
$27,006	$2,789
$27,006	$2,694
$27,006	$2,603
$27,006	$2,515
$27,006	$2,430
$27,006	$2,348
$27,006	$2,269
$27,006	$2,192
$27,006	$2,118
$27,006	$2,046
$27,006	$1,977
$27,006	$1,910
$27,006	$1,845
$27,006	$1,783
$27,006	$1,723
$27,006	$1,665
$27,006	$1,608
$27,006	$1,554

$27,006	$1,501
$27,006	$1,451
$27,006	$1,401
$27,006	$1,354
$27,006	$1,308
$27,006	$1,264
$27,006	$1,221
$27,006	$1,180
$27,006	$1,140

Year	PV Factor (2030)	WSIP Benefit Value Delta Export (without Adjustment) ($/AF)						
		Wet	Above Normal	Below Normal	Dry	Critical	Wet	Above Normal
2023	1.272	$205	$255	$265	$285	$360	0.0	0.0
2024	1.229	$205	$255	$265	$285	$360	0.0	0.0
2025	1.188	$205	$255	$265	$285	$360	0.0	0.0
2026	1.148	$205	$255	$265	$285	$360	0.0	0.0
2027	1.109	$205	$255	$265	$285	$360	0.0	0.0
2028	1.071	$205	$255	$265	$285	$360	0.0	0.0
2029	1.035	$205	$255	$265	$285	$360	0.0	0.0
2030	**1.000**	**$205**	**$255**	**$265**	**$285**	**$360**	**-1.4**	**5.6**
2031	0.966	$219	$273	$290	$311	$406	-1.4	5.4
2032	0.934	$233	$290	$314	$337	$453	-1.4	5.2
2033	0.902	$247	$308	$339	$363	$499	-1.3	5.0
2034	0.871	$261	$326	$364	$389	$545	-1.3	4.9
2035	0.842	$275	$343	$388	$415	$592	-1.3	4.7
2036	0.814	$289	$361	$413	$441	$638	-1.2	4.5
2037	0.786	$303	$379	$438	$467	$684	-1.2	4.3
2038	0.759	$317	$396	$462	$493	$731	-1.1	4.2
2039	0.734	$331	$414	$487	$519	$777	-1.1	4.0
2040	0.709	$345	$432	$512	$545	$823	-1.1	3.8
2041	0.685	$359	$449	$536	$571	$870	-1.0	3.7
2042	0.662	$373	$467	$561	$597	$916	-1.0	3.5
2043	0.639	$387	$485	$586	$623	$962	-1.0	3.3
2044	0.618	$401	$502	$610	$649	$1,009	-0.9	3.1
2045	**0.597**	**$415**	**$520**	**$635**	**$675**	**$1,055**	**-0.9**	**3.0**
2046	0.577	$415	$520	$635	$675	$1,055	-0.9	2.8
2047	0.557	$415	$520	$635	$675	$1,055	-0.8	2.6
2048	0.538	$415	$520	$635	$675	$1,055	-0.8	2.4
2049	0.520	$415	$520	$635	$675	$1,055	-0.8	2.3
2050	0.503	$415	$520	$635	$675	$1,055	-0.7	2.1
2051	0.486	$415	$520	$635	$675	$1,055	-0.7	1.9
2052	0.469	$415	$520	$635	$675	$1,055	-0.7	1.8
2053	0.453	$415	$520	$635	$675	$1,055	-0.6	1.6
2054	0.438	$415	$520	$635	$675	$1,055	-0.6	1.4
2055	0.423	$415	$520	$635	$675	$1,055	-0.6	1.2
2056	0.409	$415	$520	$635	$675	$1,055	-0.5	1.1
2057	0.395	$415	$520	$635	$675	$1,055	-0.5	0.9
2058	0.382	$415	$520	$635	$675	$1,055	-0.4	0.7
2059	0.369	$415	$520	$635	$675	$1,055	-0.4	0.5
2060	0.356	$415	$520	$635	$675	$1,055	-0.4	0.4
2061	0.344	$415	$520	$635	$675	$1,055	-0.3	0.2
2062	0.333	$415	$520	$635	$675	$1,055	-0.3	0.0
2063	0.321	$415	$520	$635	$675	$1,055	-0.3	-0.2
2064	0.310	$415	$520	$635	$675	$1,055	-0.2	-0.3
2065	0.300	$415	$520	$635	$675	$1,055	-0.2	-0.5

2066	0.290	$415	$520	$635	$675	$1,055	-0.2	-0.7
2067	0.280	$415	$520	$635	$675	$1,055	-0.1	-0.8
2068	0.271	$415	$520	$635	$675	$1,055	-0.1	-1.0
2069	0.261	$415	$520	$635	$675	$1,055	-0.1	-1.2
2070	**0.253**	**$415**	**$520**	**$635**	**$675**	**$1,055**	**0.0**	**-1.4**
2071	0.244	$415	$520	$635	$675	$1,055	0.0	-1.4
2072	0.236	$415	$520	$635	$675	$1,055	0.0	-1.4
2073	0.228	$415	$520	$635	$675	$1,055	0.0	-1.4
2074	0.220	$415	$520	$635	$675	$1,055	0.0	-1.4
2075	0.213	$415	$520	$635	$675	$1,055	0.0	-1.4
2076	0.205	$415	$520	$635	$675	$1,055	0.0	-1.4
2077	0.199	$415	$520	$635	$675	$1,055	0.0	-1.4
2078	0.192	$415	$520	$635	$675	$1,055	0.0	-1.4
2079	0.185	$415	$520	$635	$675	$1,055	0.0	-1.4
2080	0.179	$415	$520	$635	$675	$1,055	0.0	-1.4
2081	0.173	$415	$520	$635	$675	$1,055	0.0	-1.4
2082	0.167	$415	$520	$635	$675	$1,055	0.0	-1.4
2083	0.161	$415	$520	$635	$675	$1,055	0.0	-1.4
2084	0.156	$415	$520	$635	$675	$1,055	0.0	-1.4
2085	0.151	$415	$520	$635	$675	$1,055	0.0	-1.4
2086	0.146	$415	$520	$635	$675	$1,055	0.0	-1.4
2087	0.141	$415	$520	$635	$675	$1,055	0.0	-1.4
2088	0.136	$415	$520	$635	$675	$1,055	0.0	-1.4
2089	0.131	$415	$520	$635	$675	$1,055	0.0	-1.4
2090	0.127	$415	$520	$635	$675	$1,055	0.0	-1.4
2091	0.123	$415	$520	$635	$675	$1,055	0.0	-1.4
2092	0.118	$415	$520	$635	$675	$1,055	0.0	-1.4
2093	0.114	$415	$520	$635	$675	$1,055	0.0	-1.4
2094	0.111	$415	$520	$635	$675	$1,055	0.0	-1.4
2095	0.107	$415	$520	$635	$675	$1,055	0.0	-1.4
2096	0.103	$415	$520	$635	$675	$1,055	0.0	-1.4
2097	0.100	$415	$520	$635	$675	$1,055	0.0	-1.4
2098	0.096	$415	$520	$635	$675	$1,055	0.0	-1.4
2099	0.093	$415	$520	$635	$675	$1,055	0.0	-1.4
2100	0.090	$415	$520	$635	$675	$1,055	0.0	-1.4
2101	0.087	$415	$520	$635	$675	$1,055	0.0	-1.4
2102	0.084	$415	$520	$635	$675	$1,055	0.0	-1.4
2103	0.081	$415	$520	$635	$675	$1,055	0.0	-1.4
2104	0.078	$415	$520	$635	$675	$1,055	0.0	-1.4
2105	0.076	$415	$520	$635	$675	$1,055	0.0	-1.4
2106	0.073	$415	$520	$635	$675	$1,055	0.0	-1.4
2107	0.071	$415	$520	$635	$675	$1,055	0.0	-1.4
2108	0.068	$415	$520	$635	$675	$1,055	0.0	-1.4
2109	0.066	$415	$520	$635	$675	$1,055	0.0	-1.4
2110	0.064	$415	$520	$635	$675	$1,055	0.0	-1.4
2111	0.062	$415	$520	$635	$675	$1,055	0.0	-1.4
2112	0.060	$415	$520	$635	$675	$1,055	0.0	-1.4
2113	0.058	$415	$520	$635	$675	$1,055	0.0	-1.4

2114	0.056	$415	$520	$635	$675	$1,055	0.0	-1.4
2115	0.054	$415	$520	$635	$675	$1,055	0.0	-1.4
2116	0.052	$415	$520	$635	$675	$1,055	0.0	-1.4
2117	0.050	$415	$520	$635	$675	$1,055	0.0	-1.4
2118	0.048	$415	$520	$635	$675	$1,055	0.0	-1.4
2119	0.047	$415	$520	$635	$675	$1,055	0.0	-1.4
2120	0.045	$415	$520	$635	$675	$1,055	0.0	-1.4
2121	0.044	$415	$520	$635	$675	$1,055	0.0	-1.4
2122	0.042	$415	$520	$635	$675	$1,055	0.0	-1.4

Deliveries (TAF)				Water Year Type: Benefits (Frequency not taken into account) ($1,000s)				
Below Normal	Dry	Critical	Weighted Average	Wet	Above Normal	Below Normal	Dry	Critical
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
28.0	**38.2**	**83.4**	**25.8**	**($292)**	**$1,417**	**$7,416**	**$10,898**	**$30,011**
28.2	38.2	84.1	26.0	($305)	$1,468	$8,156	$11,895	$34,154
28.3	38.3	84.7	26.1	($316)	$1,513	$8,904	$12,893	$38,361
28.5	38.3	85.4	26.2	($326)	$1,552	$9,661	$13,891	$42,632
28.7	38.3	86.1	26.4	($336)	$1,584	$10,427	$14,889	$46,966
28.8	38.3	86.8	26.5	($344)	$1,611	$11,201	$15,888	$51,365
29.0	38.3	87.5	26.6	($352)	$1,631	$11,983	$16,887	$55,827
29.2	38.3	88.2	26.8	($358)	$1,646	$12,774	$17,887	$60,353
29.4	38.3	88.9	26.9	($364)	$1,654	$13,574	$18,887	$64,943
29.5	38.3	89.6	27.0	($368)	$1,656	$14,381	$19,888	$69,597
29.7	38.3	90.3	27.2	($372)	$1,652	$15,198	$20,889	$74,315
29.9	38.3	91.0	27.3	($374)	$1,642	$16,023	$21,891	$79,097
30.0	38.3	91.6	27.4	($376)	$1,626	$16,856	$22,893	$83,943
30.2	38.4	92.3	27.6	($376)	$1,603	$17,698	$23,896	$88,853
30.4	38.4	93.0	27.7	($376)	$1,575	$18,548	$24,899	$93,827
30.6	**38.4**	**93.7**	**27.8**	**($375)**	**$1,540**	**$19,407**	**$25,903**	**$98,864**
30.7	38.4	94.4	28.0	($360)	$1,450	$19,516	$25,909	$99,592
30.9	38.4	95.1	28.1	($346)	$1,360	$19,626	$25,915	$100,319
31.1	38.4	95.8	28.2	($331)	$1,270	$19,735	$25,921	$101,047
31.3	38.4	96.5	28.3	($317)	$1,180	$19,844	$25,927	$101,774
31.4	38.4	97.2	28.5	($302)	$1,090	$19,953	$25,933	$102,502
31.6	38.4	97.8	28.6	($288)	$1,001	$20,062	$25,939	$103,230
31.8	38.4	98.5	28.7	($273)	$911	$20,172	$25,945	$103,957
31.9	38.4	99.2	28.9	($259)	$821	$20,281	$25,951	$104,685
32.1	38.5	99.9	29.0	($244)	$731	$20,390	$25,957	$105,412
32.3	38.5	100.6	29.1	($230)	$641	$20,499	$25,963	$106,140
32.5	38.5	101.3	29.2	($215)	$551	$20,608	$25,969	$106,868
32.6	38.5	102.0	29.4	($201)	$461	$20,718	$25,975	$107,595
32.8	38.5	102.7	29.5	($186)	$371	$20,827	$25,981	$108,323
33.0	38.5	103.4	29.6	($172)	$281	$20,936	$25,987	$109,050
33.1	38.5	104.1	29.7	($157)	$191	$21,045	$25,993	$109,778
33.3	38.5	104.7	29.9	($143)	$101	$21,154	$25,999	$110,506
33.5	38.5	105.4	30.0	($128)	$11	$21,264	$26,005	$111,233
33.7	38.5	106.1	30.1	($114)	($79)	$21,373	$26,012	$111,961
33.8	38.5	106.8	30.2	($99)	($169)	$21,482	$26,018	$112,688
34.0	38.6	107.5	30.4	($85)	($259)	$21,591	$26,024	$113,416

34.2	38.6	108.2	30.5	($70)	($349)	$21,700	$26,030	$114,144
34.3	38.6	108.9	30.6	($56)	($439)	$21,810	$26,036	$114,871
34.5	38.6	109.6	30.7	($41)	($529)	$21,919	$26,042	$115,599
34.7	38.6	110.3	30.9	($27)	($619)	$22,028	$26,048	$116,326
34.9	**38.6**	**111.0**	**31.0**	**($12)**	**($709)**	**$22,137**	**$26,054**	**$117,054**
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054

34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054
34.9	38.6	111.0	31.0	($12)	($709)	$22,137	$26,054	$117,054

Water Type Frequency: Sacramento Valley					Total Benefits Expected ($1,000s)	Total Benefits Expected Present Value ($1,000s)
Wet	Above Normal	Below Normal	Dry	Critical		
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	**14.6%**	**20.7%**	**19.5%**	**14.6%**	**$8,174**	**$8,174**
30.5%	14.6%	20.6%	19.6%	14.6%	$9,136	$8,827
30.5%	14.6%	20.5%	19.8%	14.6%	$10,109	$9,437
30.6%	14.5%	20.4%	19.9%	14.6%	$11,093	$10,006
30.6%	14.5%	20.2%	20.0%	14.6%	$12,089	$10,535
30.6%	14.5%	20.1%	20.1%	14.6%	$13,095	$11,026
30.7%	14.5%	20.0%	20.2%	14.6%	$14,113	$11,481
30.7%	14.4%	19.9%	20.4%	14.6%	$15,142	$11,901
30.7%	14.4%	19.8%	20.5%	14.6%	$16,181	$12,288
30.8%	14.4%	19.6%	20.6%	14.6%	$17,232	$12,644
30.8%	14.3%	19.5%	20.7%	14.6%	$18,294	$12,969
30.8%	14.3%	19.4%	20.9%	14.6%	$19,367	$13,265
30.9%	14.3%	19.3%	21.0%	14.6%	$20,450	$13,534
30.9%	14.2%	19.1%	21.1%	14.6%	$21,545	$13,776
30.9%	14.2%	19.0%	21.2%	14.6%	$22,650	$13,993
30.9%	**14.2%**	**18.9%**	**21.3%**	**14.6%**	**$23,767**	**$14,186**
31.0%	14.1%	18.8%	21.5%	14.6%	$23,894	$13,780
31.0%	14.1%	18.7%	21.6%	14.6%	$24,021	$13,385
31.0%	14.1%	18.5%	21.7%	14.6%	$24,148	$13,001
31.1%	14.1%	18.4%	21.8%	14.6%	$24,275	$12,627
31.1%	14.0%	18.3%	22.0%	14.6%	$24,402	$12,264
31.1%	14.0%	18.2%	22.1%	14.6%	$24,528	$11,910
31.2%	14.0%	18.0%	22.2%	14.6%	$24,655	$11,567
31.2%	13.9%	17.9%	22.3%	14.6%	$24,781	$11,233
31.2%	13.9%	17.8%	22.4%	14.6%	$24,906	$10,908
31.3%	13.9%	17.7%	22.6%	14.6%	$25,032	$10,592
31.3%	13.8%	17.6%	22.7%	14.6%	$25,158	$10,285
31.3%	13.8%	17.4%	22.8%	14.6%	$25,283	$9,987
31.3%	13.8%	17.3%	22.9%	14.6%	$25,408	$9,697
31.4%	13.8%	17.2%	23.0%	14.6%	$25,533	$9,415
31.4%	13.7%	17.1%	23.2%	14.6%	$25,658	$9,141
31.4%	13.7%	17.0%	23.3%	14.6%	$25,782	$8,875
31.5%	13.7%	16.8%	23.4%	14.6%	$25,907	$8,616
31.5%	13.6%	16.7%	23.5%	14.6%	$26,031	$8,365
31.5%	13.6%	16.6%	23.7%	14.6%	$26,155	$8,121
31.6%	13.6%	16.5%	23.8%	14.6%	$26,279	$7,883

31.6%	13.5%	16.3%	23.9%	14.6%	$26,402	$7,652
31.6%	13.5%	16.2%	24.0%	14.6%	$26,526	$7,428
31.6%	13.5%	16.1%	24.1%	14.6%	$26,649	$7,210
31.7%	13.4%	16.0%	24.3%	14.6%	$26,772	$6,999
31.7%	**13.4%**	**15.9%**	**24.4%**	**14.6%**	**$26,895**	**$6,793**
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$6,563
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$6,341
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$6,127
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$5,920
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$5,719
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$5,526
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$5,339
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$5,159
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,984
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,816
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,653
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,495
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,343
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,197
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$4,055
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,918
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,785
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,657
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,533
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,414
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,298
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,187
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$3,079
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,975
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,874
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,777
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,683
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,593
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,505
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,420
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,338
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,259
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,183
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,109
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$2,038
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,969
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,902
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,838
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,776
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,716
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,658
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,602
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,547

31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,495
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,445
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,396
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,349
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,303
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,259
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,216
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,175
31.7%	13.4%	15.9%	24.4%	14.6%	$26,895	$1,135

Year	PV Factor (2030)	WSIP Benefit Value Delta Export (with Adjustment) ($/AF)						
		Wet	Above Normal	Below Normal	Dry	Critical	Wet	Above Normal
2023	1.272	$285.1	$335.1	$345.1	$365.1	$440.1	0.0	0.0
2024	1.229	$285.1	$335.1	$345.1	$365.1	$440.1	0.0	0.0
2025	1.188	$285.1	$335.1	$345.1	$365.1	$440.1	0.0	0.0
2026	1.148	$285.1	$335.1	$345.1	$365.1	$440.1	1.8	18.2
2027	1.109	$285.1	$335.1	$345.1	$365.1	$440.1	2.7	27.3
2028	1.071	$285.1	$335.1	$345.1	$365.1	$440.1	3.6	36.4
2029	1.035	$285.1	$335.1	$345.1	$365.1	$440.1	5.4	54.6
2030	**1.000**	**$285.1**	**$335.1**	**$345.1**	**$365.1**	**$440.1**	**18.0**	**182.0**
2031	0.966	$299.1	$352.8	$369.8	$391.1	$486.4	17.4	180.1
2032	0.934	$313.1	$370.4	$394.4	$417.1	$532.8	16.7	178.1
2033	0.902	$327.1	$388.1	$419.1	$443.1	$579.1	16.1	176.2
2034	0.871	$341.1	$405.8	$443.8	$469.1	$625.4	15.4	174.2
2035	0.842	$355.1	$423.4	$468.4	$495.1	$671.8	14.8	172.3
2036	0.814	$369.1	$441.1	$493.1	$521.1	$718.1	14.1	170.3
2037	0.786	$383.1	$458.8	$517.8	$547.1	$764.4	13.5	168.4
2038	0.759	$397.1	$476.4	$542.4	$573.1	$810.8	12.8	166.4
2039	0.734	$411.1	$494.1	$567.1	$599.1	$857.1	12.2	164.5
2040	0.709	$425.1	$511.8	$591.8	$625.1	$903.4	11.5	162.5
2041	0.685	$439.1	$529.4	$616.4	$651.1	$949.8	10.9	160.6
2042	0.662	$453.1	$547.1	$641.1	$677.1	$996.1	10.2	158.6
2043	0.639	$467.1	$564.8	$665.8	$703.1	$1,042.4	9.6	156.7
2044	0.618	$481.1	$582.4	$690.4	$729.1	$1,088.8	8.9	154.7
2045	**0.597**	**$495.1**	**$600.1**	**$715.1**	**$755.1**	**$1,135.1**	**8.3**	**152.8**
2046	0.577	$495.1	$600.1	$715.1	$755.1	$1,135.1	7.6	150.8
2047	0.557	$495.1	$600.1	$715.1	$755.1	$1,135.1	7.0	148.9
2048	0.538	$495.1	$600.1	$715.1	$755.1	$1,135.1	6.3	146.9
2049	0.520	$495.1	$600.1	$715.1	$755.1	$1,135.1	5.7	145.0
2050	0.503	$495.1	$600.1	$715.1	$755.1	$1,135.1	5.0	143.0
2051	0.486	$495.1	$600.1	$715.1	$755.1	$1,135.1	4.4	141.1
2052	0.469	$495.1	$600.1	$715.1	$755.1	$1,135.1	3.7	139.1
2053	0.453	$495.1	$600.1	$715.1	$755.1	$1,135.1	3.1	137.2
2054	0.438	$495.1	$600.1	$715.1	$755.1	$1,135.1	2.4	135.2
2055	0.423	$495.1	$600.1	$715.1	$755.1	$1,135.1	1.8	133.3
2056	0.409	$495.1	$600.1	$715.1	$755.1	$1,135.1	1.1	131.3
2057	0.395	$495.1	$600.1	$715.1	$755.1	$1,135.1	0.4	129.4
2058	0.382	$495.1	$600.1	$715.1	$755.1	$1,135.1	-0.2	127.4
2059	0.369	$495.1	$600.1	$715.1	$755.1	$1,135.1	-0.9	125.5
2060	0.356	$495.1	$600.1	$715.1	$755.1	$1,135.1	-1.5	123.5
2061	0.344	$495.1	$600.1	$715.1	$755.1	$1,135.1	-2.2	121.6
2062	0.333	$495.1	$600.1	$715.1	$755.1	$1,135.1	-2.8	119.6
2063	0.321	$495.1	$600.1	$715.1	$755.1	$1,135.1	-3.5	117.7
2064	0.310	$495.1	$600.1	$715.1	$755.1	$1,135.1	-4.1	115.7
2065	0.300	$495.1	$600.1	$715.1	$755.1	$1,135.1	-4.8	113.8

2066	0.290	$495.1	$600.1	$715.1	$755.1	$1,135.1	-5.4	111.8
2067	0.280	$495.1	$600.1	$715.1	$755.1	$1,135.1	-6.1	109.9
2068	0.271	$495.1	$600.1	$715.1	$755.1	$1,135.1	-6.7	107.9
2069	0.261	$495.1	$600.1	$715.1	$755.1	$1,135.1	-7.4	106.0
2070	**0.253**	**$495.1**	**$600.1**	**$715.1**	**$755.1**	**$1,135.1**	**-8.0**	**104.0**
2071	0.244	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2072	0.236	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2073	0.228	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2074	0.220	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2075	0.213	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2076	0.205	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2077	0.199	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2078	0.192	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2079	0.185	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2080	0.179	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2081	0.173	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2082	0.167	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2083	0.161	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2084	0.156	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2085	0.151	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2086	0.146	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2087	0.141	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2088	0.136	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2089	0.131	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2090	0.127	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2091	0.123	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2092	0.118	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2093	0.114	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2094	0.111	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2095	0.107	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2096	0.103	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2097	0.100	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2098	0.096	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2099	0.093	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2100	0.090	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2101	0.087	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2102	0.084	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2103	0.081	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2104	0.078	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2105	0.076	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2106	0.073	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2107	0.071	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2108	0.068	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2109	0.066	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2110	0.064	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2111	0.062	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2112	0.060	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2113	0.058	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0

2114	0.056	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2115	0.054	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2116	0.052	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2117	0.050	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2118	0.048	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2119	0.047	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2120	0.045	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2121	0.044	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0
2122	0.042	$495.1	$600.1	$715.1	$755.1	$1,135.1	-8.0	104.0

Deliveries (TAF)				Water Year Type: Benefits (Frequency not taken into account) ($1,000s)				
Below Normal	Dry	Critical	Weighted Average	Wet	Above Normal	Below Normal	Dry	Critical
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
0.0	0.0	0.0	0.0	$0	$0	$0	$0	$0
6.5	5.7	18.1	8.3	$506	$6,013	$2,212	$2,052	$7,854
9.8	8.6	27.2	12.5	$759	$9,020	$3,318	$3,078	$11,781
13.0	11.4	36.2	16.6	$1,012	$12,027	$4,423	$4,104	$15,709
19.5	17.1	54.3	25.0	$1,518	$18,040	$6,635	$6,156	$23,563
65.0	**57.0**	**181.0**	**83.2**	**$5,060**	**$60,134**	**$22,117**	**$20,519**	**$78,543**
63.1	57.0	182.7	82.5	$5,117	$62,626	$22,987	$21,971	$87,603
61.1	57.0	184.3	81.8	$5,156	$65,051	$23,762	$23,421	$96,814
59.2	56.9	186.0	81.1	$5,176	$67,407	$24,443	$24,870	$106,176
57.2	56.9	187.6	80.4	$5,179	$69,695	$25,028	$26,318	$115,689
55.3	56.9	189.3	79.7	$5,164	$71,915	$25,519	$27,765	$125,352
53.3	56.9	190.9	79.0	$5,131	$74,068	$25,914	$29,210	$135,166
51.4	56.8	192.6	78.4	$5,081	$76,152	$26,215	$30,654	$145,131
49.4	56.8	194.2	77.7	$5,012	$78,169	$26,421	$32,096	$155,247
47.5	56.8	195.9	77.0	$4,925	$80,117	$26,532	$33,538	$165,513
45.5	56.8	197.5	76.4	$4,820	$81,998	$26,548	$34,978	$175,930
43.6	56.7	199.2	75.7	$4,698	$83,811	$26,470	$36,417	$186,498
41.6	56.7	200.8	75.1	$4,557	$85,555	$26,296	$37,854	$197,217
39.7	56.7	202.5	74.4	$4,398	$87,232	$26,028	$39,290	$208,086
37.7	56.7	204.1	73.8	$4,222	$88,841	$25,665	$40,725	$219,106
35.8	**56.6**	**205.8**	**73.2**	**$4,027**	**$90,382**	**$25,207**	**$42,159**	**$230,277**
33.8	56.6	207.4	72.5	$3,710	$89,228	$23,832	$42,140	$232,124
31.9	56.6	209.1	71.9	$3,393	$88,074	$22,457	$42,122	$233,971
29.9	56.6	210.7	71.3	$3,075	$86,921	$21,082	$42,103	$235,817
28.0	56.5	212.4	70.7	$2,758	$85,767	$19,707	$42,084	$237,664
26.0	56.5	214.0	70.1	$2,441	$84,613	$18,332	$42,066	$239,511
24.1	56.5	215.7	69.5	$2,124	$83,459	$16,957	$42,047	$241,357
22.1	56.5	217.3	68.9	$1,806	$82,305	$15,582	$42,029	$243,204
20.2	56.4	219.0	68.3	$1,489	$81,151	$14,208	$42,010	$245,051
18.2	56.4	220.6	67.7	$1,172	$79,998	$12,833	$41,991	$246,897
16.3	56.4	222.3	67.1	$854	$78,844	$11,458	$41,973	$248,744
14.3	56.4	223.9	66.6	$537	$77,690	$10,083	$41,954	$250,591
12.4	56.3	225.6	66.0	$220	$76,536	$8,708	$41,936	$252,437
10.4	56.3	227.2	65.5	($98)	$75,382	$7,333	$41,917	$254,284
8.5	56.3	228.9	64.9	($415)	$74,229	$5,958	$41,898	$256,131
6.5	56.3	230.5	64.3	($732)	$73,075	$4,583	$41,880	$257,978
4.6	56.2	232.2	63.8	($1,050)	$71,921	$3,208	$41,861	$259,824
2.6	56.2	233.8	63.3	($1,367)	$70,767	$1,833	$41,843	$261,671
0.7	56.2	235.5	62.7	($1,684)	$69,613	$458	$41,824	$263,518
-1.3	56.2	237.1	62.2	($2,001)	$68,460	($917)	$41,805	$265,364
-3.3	56.1	238.8	61.7	($2,319)	$67,306	($2,292)	$41,787	$267,211

-5.2	56.1	240.4	61.2	($2,636)	$66,152	($3,666)	$41,768	$269,058
-7.1	56.1	242.1	60.7	($2,953)	$64,998	($5,041)	$41,749	$270,904
-9.1	56.1	243.7	60.2	($3,271)	$63,844	($6,416)	$41,731	$272,751
-11.1	56.0	245.4	59.7	($3,588)	$62,690	($7,791)	$41,712	$274,598
-13.0	**56.0**	**247.0**	**59.2**	**($3,905)**	**$61,537**	**($9,166)**	**$41,694**	**$276,445**
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445

-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445
-13.0	56.0	247.0	59.2	($3,905)	$61,537	($9,166)	$41,694	$276,445

Water Type Frequency: Sacramento Valley					Total Benefits Expected ($1,000s)	Total Benefits Expected Present Value ($1,000s)
Wet	Above Normal	Below Normal	Dry	Critical		
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$0	$0
30.5%	14.6%	20.7%	19.5%	14.6%	$3,043	$3,491
30.5%	14.6%	20.7%	19.5%	14.6%	$4,564	$5,060
30.5%	14.6%	20.7%	19.5%	14.6%	$6,085	$6,519
30.5%	14.6%	20.7%	19.5%	14.6%	$9,128	$9,447
30.5%	**14.6%**	**20.7%**	**19.5%**	**14.6%**	**$30,426**	**$30,426**
30.5%	14.6%	20.6%	19.6%	14.6%	$32,579	$31,477
30.5%	14.6%	20.5%	19.8%	14.6%	$34,718	$32,410
30.6%	14.5%	20.4%	19.9%	14.6%	$36,845	$33,232
30.6%	14.5%	20.2%	20.0%	14.6%	$38,960	$33,951
30.6%	14.5%	20.1%	20.1%	14.6%	$41,063	$34,574
30.7%	14.5%	20.0%	20.2%	14.6%	$43,154	$35,106
30.7%	14.4%	19.9%	20.4%	14.6%	$45,234	$35,554
30.7%	14.4%	19.8%	20.5%	14.6%	$47,303	$35,923
30.8%	14.4%	19.6%	20.6%	14.6%	$49,362	$36,219
30.8%	14.3%	19.5%	20.7%	14.6%	$51,411	$36,447
30.8%	14.3%	19.4%	20.9%	14.6%	$53,451	$36,611
30.9%	14.3%	19.3%	21.0%	14.6%	$55,481	$36,717
30.9%	14.2%	19.1%	21.1%	14.6%	$57,503	$36,767
30.9%	14.2%	19.0%	21.2%	14.6%	$59,516	$36,768
30.9%	**14.2%**	**18.9%**	**21.3%**	**14.6%**	**$61,521**	**$36,721**
31.0%	14.1%	18.8%	21.5%	14.6%	$61,262	$35,330
31.0%	14.1%	18.7%	21.6%	14.6%	$61,006	$33,993
31.0%	14.1%	18.5%	21.7%	14.6%	$60,755	$32,708
31.1%	14.1%	18.4%	21.8%	14.6%	$60,507	$31,473
31.1%	14.0%	18.3%	22.0%	14.6%	$60,263	$30,286
31.1%	14.0%	18.2%	22.1%	14.6%	$60,023	$29,146
31.2%	14.0%	18.0%	22.2%	14.6%	$59,787	$28,049
31.2%	13.9%	17.9%	22.3%	14.6%	$59,555	$26,995
31.2%	13.9%	17.8%	22.4%	14.6%	$59,326	$25,982
31.3%	13.9%	17.7%	22.6%	14.6%	$59,101	$25,009
31.3%	13.8%	17.6%	22.7%	14.6%	$58,880	$24,072
31.3%	13.8%	17.4%	22.8%	14.6%	$58,663	$23,173
31.3%	13.8%	17.3%	22.9%	14.6%	$58,450	$22,308
31.4%	13.8%	17.2%	23.0%	14.6%	$58,240	$21,476
31.4%	13.7%	17.1%	23.2%	14.6%	$58,035	$20,677
31.4%	13.7%	17.0%	23.3%	14.6%	$57,833	$19,908
31.5%	13.7%	16.8%	23.4%	14.6%	$57,635	$19,169
31.5%	13.6%	16.7%	23.5%	14.6%	$57,441	$18,458
31.5%	13.6%	16.6%	23.7%	14.6%	$57,250	$17,775
31.6%	13.6%	16.5%	23.8%	14.6%	$57,064	$17,118

31.6%	13.5%	16.3%	23.9%	14.6%	$56,881	$16,486
31.6%	13.5%	16.2%	24.0%	14.6%	$56,702	$15,878
31.6%	13.5%	16.1%	24.1%	14.6%	$56,527	$15,294
31.7%	13.4%	16.0%	24.3%	14.6%	$56,355	$14,732
31.7%	**13.4%**	**15.9%**	**24.4%**	**14.6%**	**$56,188**	**$14,192**
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$13,712
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$13,248
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$12,800
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$12,367
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$11,949
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$11,545
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$11,154
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$10,777
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$10,413
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$10,061
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$9,720
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$9,392
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$9,074
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$8,767
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$8,471
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$8,184
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$7,908
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$7,640
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$7,382
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$7,132
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$6,891
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$6,658
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$6,433
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$6,215
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$6,005
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$5,802
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$5,606
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$5,416
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$5,233
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$5,056
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$4,885
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$4,720
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$4,560
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$4,406
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$4,257
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$4,113
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$3,974
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$3,840
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$3,710
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$3,584
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$3,463
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$3,346
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$3,233

31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$3,124
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$3,018
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$2,916
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$2,817
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$2,722
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$2,630
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$2,541
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$2,455
31.7%	13.4%	15.9%	24.4%	14.6%	$56,188	$2,372

Worksheet Name: 2030 and 2070 -->

Worksheet Name: Water Supply 2030 and 2070

Table A3-16. Increase in Water Supply Deliveries (TAF/year) Table A5-38. Increase in Water Supply Deliveries (TAF/year)

Period	NOD Agriculture	SOD Agriculture	SOD M&I	Found Water	Total
2030 Results					
Long-Term Average	**110**	**27**	**106**	**11**	**254**
Wet	62	5	15		82
Above Normal	86	6	52		144
Below Normal	125	28	121		273
Dry	157	56	213		426
Critical	153	53	185		391
Dry/Critical	53	19	69		140
2070 Results					
Long-Term Average	**137**	**30**	**117**	**11**	**295**
Wet	110	5	15		130
Above Normal	146	12	72		230
Below Normal	152	26	116		294
Dry	161	69	257		488
Critical	133	41	145		319
Dry/Critical	59	23	84		166
Average (2031-2122) Results					
Long-Term Average	**131**	**29**	**114**	**11**	**286**

Year Type	Sacramento Valley		2030 San Joaqu	2070 San Joaquin Valley
	2030	**2070**	**2030**	**2070**
Wet	30%	32%	26%	18%
Above Normal	15%	13%	20%	21%
Below Normal	21%	16%	15%	11%
Dry	20%	24%	18%	16%
Critical	15%	15%	22%	34%
Total	**100%**	**100%**	100%	100%

Year	North Of Delta Agriculture (TAF/Yr)				
	Wet	Above Normal	Below Normal	Dry	Critical
2030	62	86	125	157	153
2070	110	146	152	161	133
2030	30%	15%	21%	20%	15%
2070	32%	13%	16%	24%	15%
Long Term Average					

Year	Sacramento Valley				
	Wet	Above Normal	Below Normal	Dry	Critical
2030	30%	15%	21%	20%	15%
2070	32%	13%	16%	24%	15%

South of Delta Agriculture (TAF/yr)

Long Term Avg.	Dry/Critical Avg.	Wet	Above Normal	Below Normal	Dry	Critical
110	53	5	6	28	56	53
137	59	5	12	26	69	41
100%	34%	30%	15%	21%	20%	15%
100%	39%	32%	13%	16%	24%	15%
131						
		30%	15%	21%	20%	15%
		32%	13%	16%	24%	15%

San Joaquin Valley

Long Term Avg.	Dry/Critical Avg.	Wet	Above Normal	Below Normal	Dry	Critical
100%	34%	26%	20%	15%	18%	22%
100%	39%	18%	21%	11%	16%	34%

Long Term Avg.	M&I South of Delta (TAF/yr)					
	Dry/Critical Avg.	Wet	Above Normal	Below Normal	Dry	Critical
27	19	15	52	121	213	185
30	23	15	72	116	257	145
100%	34%	30%	15%	21%	20%	15%
100%	39%	32%	13%	16%	24%	15%
29						

100%
100%

Long Term Avg.
100%
100%

Long Term Avg.	Dry/Critical Avg.
106	69
117	84
100%	34%
100%	39%
114	

Worksheet Name: Ecosystem 2030 & 2070

Incremental Level 4 Refuge Water Supply

Period	Sacramento Refuges	San Joaquin Refuges	Tulare Lake Refuges	Total
		Hydrologic Region		
2030 Results				
Long-Term Average				
Wet	1	42	10	53
Above Normal	1	37	9	47
Below Normal	1	30	7	38
Dry	0	17	4	21
Critical	0	1	0	1
2070 Results				
Long-Term Average	31	1	31	63
Wet	1	41	9	51
Above Normal	1	33	7	41
Below Normal	1	24	5	30
Dry	0	14	3	17
Critical	0	1	0	1
Average (2031-2122)				
Long-Term Average	0	1	32	32
2030 Dry/Critical	0	10	2	12
2070 Dry/Critical	0	9	2	11

Table A3-11. Yolo Bypass Flow Ir Table A5-26. Yolo Bypass Flow Increases for 2030 and 2070 (TAF/Yr)
Aug-Oct Full Simulation

2030 Results	
Full	39
Dry	33
Critical	5
2070 Results	
Full	39
Dry	33
Critical	8
Average (2031-2122)	
Long-Term Average	39

Table A3-9. Lake Oroville Storage Table A5-22. Lake Oroville Storage Increases for 2030 and 2070 (TAF/Yr)
May; Full Simulation

2030 Results	
Full	26
Dry	38
Critical	83

2070 Results	
Full	31
Dry	39
Critical	111
Average (2031-2122)	
Long-Term Average	30

Shasta Cold Water End-of-Sept Storage Increase: Equivalent Water Quantity

Period	TAF	Percent
2030 Results		
Long-Term Average	83	100%
Wet	18	30%
Above Normal	182	15%
Below Normal	65	21%
Dry	57	20%
Critical	181	15%
2070 Results		
Long-Term Average	59	100%
Wet	-8	32%
Above Normal	104	13%
Below Normal	-13	16%
Dry	56	24%
Critical	247	15%
Average (2031-2122)		
Long-Term Average	64	100%

Year Type	2030 Sacramento Valley	2070 Sacramento Valle	2030 San Joaquin V	2070 San Joaquin
Wet	30%	32%	26%	18%
Above Normal	15%	13%	20%	21%
Below Normal	21%	16%	15%	11%
Dry	20%	24%	18%	16%
Critical	15%	15%	22%	34%
Total	100%	100%	100%	100%

Incremental Level 4			Incremental Level 4 Refuge (TAF/Yr	
	Wet	Above Normal	Below Normal	Dry
2030	48.0	49.0	36.1	25.5
2070	45.8	41.4	32.7	21.3
2030	30%	15%	21%	20%
2070	32%	13%	16%	24%
Long-Term Average				

Sacramento Valley
2030
100%
30%
15%
21%
20%
15%
2070
100%
32%
13%
16%
24%
15%

34%
39%

Table A3-7.Increme **Table A5-16. Incremental Level 4 Refuge Water Supply increases (2030 and 2070**

Period	North-of-the-Delta	South-of-the-Delta	Total	SOD Original Percentage
2030 Results				
Long-Term Average		0	0	
Wet	1	52	53	1.7%
Above Normal	1	46	47	1.9%
Below Normal	1	38	38	1.9%
Dry	0	20	21	1.8%
Critical	0	1	1	1.6%
2070 Results				
Long-Term Average	31	31	63	
Wet	1	50	51	1.8%
Above Normal	1	40	41	1.8%
Below Normal	1	29	30	2.0%
Dry	0	16	17	1.4%
Critical	0	1	1	1.1%
2030–2122 Results				
Long-Term Average	**0**	**32**	**32**	

Lake Oroville Storage		
End of May		
Change in Storage (With Project minus Without Project) (TAF)		
Current	2030	2070

LT	35	26	31
W	0	-1	0
AN	4	6	-1
BN	24	28	35
D	100	38	39
C	58	83	111

Valley

LT	35	26	31
W	0	-1	0
AN	4	6	-1
BN	24	28	35

Critical	Long Term Avg.	Dry/Crit. Avg.	Incremental Level 4 Refuge - NOD (TAF/Yr)				
			Wet	Above Normal	Below Normal	Dry	Critical
6.6	35.2	5.9	0.8	0.9	0.7	0.5	0.1
5.8	31.3	6.0	0.8	0.8	0.6	0.3	0.1
15%	100%	34%	30%	15%	21%	20%	15%
15%	100%	39%	32%	13%	16%	24%	15%
	0.0						

) (TAF/Yr)   NEW

	Level 4 Deliveries from Sites to CVP Refuges				NOD	
	Average Annual Deliveries (TAF)					
	2015	2030	2070			2030
LT	37	35	31			
W	54	48	46			0.8
AN	44	49	41			0.9
BN	31	36	33			0.7
D	29	26	21			0.5
C	11	7	6			0.1

		Incremental Level 4 Refuge - SOD (TAF/Yr)				
Long Term Avg.	Dry/Crit. Avg.	Wet	Above Normal	Below Normal	Dry	Critical
0.6	0.1	47.2	48.0	35.4	25.1	6.5
0.5	0.1	45.0	40.6	32.0	21.0	5.7
100%	34%	30%	15%	21%	20%	15%
100%	39%	32%	13%	16%	24%	15%
0.6						

2070
0.8
0.8
0.6
0.3
0.1

SOD

2030	2070
47.2	45.0
48.0	40.6
35.4	32.0
25.1	21.0
6.5	5.7

Long Term Avg.	Dry/Crit. Avg.	Shasta - End-of-Sept Storage Increase					
		Wet	Above Normal	Below Normal	Dry	Critical	Long Term Avg.
34.6	5.8	18	182	65	57	181	83
30.7	5.9	-8	104	-13	56	247	59
100%	34%	30%	15%	21%	20%	15%	100%
100%	39%	32%	13%	16%	24%	15%	100%
31.6							64

Dry/Crit. Avg.	Oroville Cold Water Pool May					
	Wet	Above Normal	Below Normal	Dry	Critical	Long Term Avg (TAF/year)
38	-1	6	28	38	83	26
50	0	-1	35	39	111	31
34%	30%	15%	21%	20%	15%	100%
39%	32%	13%	16%	24%	15%	100%
						30